

TYPE	DATE	TIME	AGENCY	DESCRIPTION	PAGE	
Area Forecast Discussion	3/27/2017	0300	PDT	San Diego	A low pressure system moving through the Great Basin into the southwest states will bring inland cooling for <b>Thursday and Friday...gusty west winds for Thursday...</b>	58
Area Forecast Discussion	3/27/2017	0300	PDT	San Diego	<b>A closed low pressure system will move into the Great Basin on Thursday and into Arizona Friday. ... In advance of this low pressure system....stronger onshore flow will develop on Thursday with gusty west winds in the mountains and deserts and cooling to near to slightly above average.</b>	58
Area Forecast Discussion	3/27/2017	0345	MST	Phoenix	<b>Phoenix NWS office primarily forecasting for Arizona and not California.</b> However, the forecast confirms San Diegos forecast when Phoenix office states.... <b>Models are in fairly good agreement of a transient ridge building over the area Wednesday into Thursday which is forecast to push our temperatures back into the upper 80s across the Phoenix area. However, models show yet another trough diving down from the Pacific Northwest and into our [area] on Friday.</b>	61
Area Forecast Discussion	3/27/2017	1400	PDT	San Diego	...more likely Thursday night after a period of stronger onshore flow from the next low pressure system coming down from the north. <b>This low will track from far northern California Thursday southeast to Arizona Friday. Height/temperature/pressure gradients will be tight on the west/southwest side of the low and result in strong west winds in the mountains and deserts Thursday afternoon/evening. High-res models are indicating strong winds could make it into populated parts of the Coachella Valley, ....</b>	64
Urgent Weather Message	3/28/2017	2012	PDT	San Diego	<b>HIGH WIND WATCH IN EFFECT FROM THURSDAY AFTERNOON THROUGH LATE THURSDAY NIGHT</b> ...includes the San Diego Mountains, Coachella Valley, including Indio, Palm Springs, Cathedral City, Palm Desert, Coachella, and Borrego Springs.... <b>WINDS</b> ...Westerly 30 to 45 MPH with areas of 55 to 65 MPH gusts near the desert slopes and foothills	66
Area Forecast Discussion	3/28/2017	2102	PDT	San Diego	.... but a <b>High wind Watch</b> has been issued for Thu PM for the mts/deserts. <b>Models continue to show a powerful Spring storm wrapping up over NV/UT Thu night into Fri. Rapidly falling sfc pressure over NV will combine with increasing winds aloft to pose a high wind potential across eastern portions of the forecast area. The local WRF and MOS guidance suggest there is at least a moderate potential for wind gusts exceeding 55 MPH with possible mountain wave activity affecting the lower deserts.</b>	68
Urgent Weather Message	3/29/2017	0200	PDT	San Diego	<b>HIGH WIND WATCH REMAINS IN EFFECT FROM THURSDAY AFTERNOON THROUGH LATE THURSDAY NIGHT</b> ...includes the San Diego Mountains, Coachella Valley, including Indio, Palm Springs, Cathedral City, Palm Desert, Coachella, and Borrego Springs.... <b>WINDS</b> ...Westerly 30 to 45 MPH with gusts up to 65 MPH gusts near the desert slopes and foothills. <b>*TIMING....Winds increasing Thursday morning and becoming quite strong and gusty in the afternoon. Strongest winds Thursday evening. Winds will switch to northerly Thursday night and could remain strong through early Friday morning.</b>	70

TYPE	DATE	TIME	AGENCY	DESCRIPTION	PAGE	
Area Forecast Discussion	3/29/2017	0230	PDT	San Diego	<p>...<a href="#">A deep low with good model consensus will develop on Thursday over the Great Basin and create a very strong gradient over our mountains and deserts. A strong jet rounding the low will bring upper-level support for the potential for strong damaging winds over the mountains and deserts. The peak of the wind event is likely to be Thursday evening. Surfacing mountain waves over the Coachella Valley will be a significant concern where the potential for wind damage could occur</a>, as well as in parts of the Mojave Desert, with blowing sand and dust also a possible significant impact in those areas.....</p>	72
Area Forecast Discussion	3/29/2017	0230	PDT	San Diego	<p><b>.SGX WATCHES/WARNINGS/ADVISORIES....CA...High Wind Watch</b> from Thursday afternoon through late Thursday night for Apple and Lucerne Valleys-Coachella Valley-Riverside County Mountains-San Bernardino County Mountains-San Diego County Deserts-San Diego County Mountains-San Gorgonio Pass Near Banning.</p>	72
Area Forecast Discussion	3/29/2017	0343	MST	Phoenix	<p>... A strong low pressure system will then produce windy conditions Thursday along with much cooler temperatures Friday....<a href="#">A Pacific low pressure system dropping into the Great Basin will strengthen, ultimately closing off across Utah Thursday evening. Windy conditions will develop ahead of this low during the afternoon and evening</a> with the latest NAEFS percentiles indicating speeds widespread above the 90th percentile and even approaching the 99th percentile in some spots.</p>	74
Area Forecast Discussion	3/29/2017	0941	MST	Phoenix	<p>...A strong low pressure system will then produce windy conditions Thursday along with much cooler temperatures Friday. ....<a href="#">Concerns shift to strong winds for tomorrow ahead of an intense storm system digging across the Great Basin.....</a></p>	77
Area Forecast Discussion	3/29/2017	0950	PDT	San Diego	<p>...stronger onshore flow pattern through Thursday afternoon as a deep trough over the Pacific Northwest tracks across the Great Basin. <b>Strong winds rounding the base of the trough and an elevated inversion just above the ridgetops will support mountain wave development Thursday afternoon. Model cross-sections show waves surfacing down the lee slopes into the Coachella Valley and San Diego deserts Thursday afternoon and evening. Surface winds of 20-30 mph are likely with peak gusts of 50-60 mph on the slopes and some parts of the desert floor. Wind damage is possible. Blowing dust and sand will restrict visibilities.</b> Rotors are likely in the vicinity of Palm Springs airport. A High Wind Watch in effect for most of the mountain and desert areas.</p>	80
Area Forecast Discussion	3/29/2017	0950	PDT	San Diego	<p>CA...<b>High Wind Watch</b> from Thursday afternoon through late Thursday night for Apple and Lucerne Valleys-Coachella Valley-Riverside County Mountains-San Bernardino County Mountains-San Diego County Deserts-San Diego County Mountains-San Gorgonio Pass Near Banning.</p>	80
Urgent Weather Message	3/29/2017	1337	PDT	San Diego	<p><b>HIGH WIND WATCH REMAINS IN EFFECT FROM THURSDAY AFTERNOON THROUGH LATE THURSDAY NIGHT</b>...includes the San Diego Mountains, Coachella Valley, including Indio, Palm Springs, Cathedral City, Palm Desert, Coachella, and Borrego Springs....<b>WINDS...Westerly 20 to 40 MPH with gusts up to 65 MPH gusts near the desert slopes and foothills</b></p>	82

TYPE	DATE	TIME	AGENCY	DESCRIPTION	PAGE	
Area Forecast Discussion	3/29/2017	1429	PDT	San Diego	<p>...On <b>Thursday a deep trough moving across the Great Basin will bring strong and gusty west winds to the mountains and deserts</b>....The ridge axis shifts east tonight and we will transition to a progressively stronger onshore flow pattern Thursday. <b>A deep upper trough will move into NorCal tonight and then across the Great Basin/California interior on Thursday. The core of the strongest winds in SoCal will be Thursday afternoon through Thursday evening, a relatively short duration onshore wind event. Pressure gradients ramp up Thursday afternoon and peak Thursday evening with a 994 mb surface low over southern Utah. Strong gradient winds over the high deserts from 20-30 mph with gust to 50 mph+</b>. Mountain waves are a near certainty with an inversion near 700 mb. <b>West winds will surface down the eastern slopes and into the lower deserts</b>, but the magnitude of the wind is still in question....</p>	84
Area Forecast Discussion	3/29/2017	1429	PDT	San Diego	<p>CA...<b>High Wind Watch</b> from Thursday afternoon through late Thursday night for Apple and Lucerne Valleys-Coachella Valley-Riverside County Mountains-San Bernardino County Mountains-San Diego County Deserts-San Diego County Mountains-San Gorgonio Pass Near Banning.</p>	84
Area Forecast Discussion	3/29/2017	1443	MST	Phoenix	<p>....<b>A strong low pressure system will then produce windy conditions Thursday along with much cooler temperatures Friday</b>....However, a pattern change is underway across the western U.S. <b>as a seasonably strong upper low deepens across the western Great Basin overnight into tomorrow. The primary effect from this system will be strengthening westerly winds beginning early Thursday</b>, spreading into central Arizona by Thursday evening.</p>	87
Area Forecast Discussion	3/29/2017	1443	MST	Phoenix	<p>CA...<b>Wind Advisory</b> from 2 PM Thursday to 9 AM PDT Friday for CAZ030-032.</p>	87
Urgent Weather Message	3/29/2017	1739	MST	Phoenix	<p>...<b>Imperial County...WIND ADVISORY IN EFFECT FROM 2 PM TO 11 PM PDT THURSDAY</b>...The National Weather Service in Phoenix has issued a Wind Advisory, which is in effect from 2 PM to 11 PM PDT Thursday.                      * AFFECTED AREA...Imperial County including Interstate 8.                      * TIMING...Thursday afternoon through late evening.                      * WINDS...<b>West winds of 20 to 30 mph with gusts up to 45 mph.</b>                      * IMPACTS...Strong winds will create difficult driving conditions especially for high profile vehicles. Locally reduced visibilities due to blowing dust possible.</p>	89
Urgent Weather Message	3/29/2017	1813	PDT	San Diego	<p>....<b>Strong and Locally Damaging West Winds in the Mountains and Deserts Thursday Afternoon and Evening</b>....A deep low pressure trough over the Pacific Northwest will move rapidly southeast toward the Great Basin Thursday. This trough will bring strong and locally damaging west winds over the mountains and deserts Thursday afternoon and evening.... San Diego County Mountains-Coachella Valley-San Diego Deserts-....<b>High Wind Warning in Effect from Noon to 11 PM THURSDAY</b>....<b>*WINDS</b>...Sustained west winds of 20 to 40 mph. Gusts to 70 mph or higher on mountain tops and desert mountain slopes. Gusts of 50 to 60 mph in the Coachella Valley and the San Diego County desert. <b>*TIMING</b>...Winds will increase Thursday morning, becoming strong and locally damaging Thursday afternoon and evening. The strongest winds are expected between 2 and 6 PM Thursday. <b>*Visibility</b>...Severe restrictions of a quarter of a mile or less in blowing dust and sand possible in the deserts.</p>	91

TYPE	DATE	TIME	AGENCY	DESCRIPTION	PAGE	
Area Forecast Discussion	3/29/2017	1828	PDT	San Diego	<p>...Update - High Wind Warning Issued for the Mountains/deserts...Upgraded to a High Wind Warning for the mountains to the desert floor. The pressure gradient will really tighten up and result in strong to locally damaging winds across the mountains to the deserts Thursday afternoon and evening. The strongest winds are expected to occur across the high desert and the mountain tops/desert slopes.... <b>Localized damaging wind is possible across the Coachella Valley and the San Diego County deserts...Localized gusts to 60 mph will occur as mountain waves surface.</b> Timing of strongest winds is forecast to be 2-6 pm Thursday.</p>	93
Urgent Weather Message	3/30/2017	0159	MST	Phoenix	<p>...Imperial County...<b>WIND ADVISORY REMAINS IN EFFECT FROM 2 PM THIS AFTERNOON TO 11 PM PDT THIS EVENING...</b></p> <ul style="list-style-type: none"> <li>* AFFECTED AREA...Imperial County including Interstate 8.</li> <li>* TIMING...Thursday afternoon through late evening.</li> <li>* WINDS...West winds of 25 to 35 mph with gusts up to 45 mph.</li> <li>* IMPACTS...Strong winds will create difficult driving conditions especially for high profile vehicles. Locally reduced visibilities due to blowing dust possible.</li> </ul>	96
Area Forecast Discussion	3/30/2017	0322	PDT	San Diego	<p>...Severe potentially damaging winds later today and this evening over the mountains and deserts...This trough will deepen into a closed low later today over the Great Basin and will be starved for moisture but will introduce a very strong pressure gradient over Socal. Upper jet support with 120 kt+ through about 06z <b>this evening will support very strong W-NW winds over the mountains and into the Mojave and Coachella Valley and SD Deserts along with the possibility of significant blowing sand and dust in the deserts. A high wind warning remains in effect for this afternoon and evening</b></p>	99
Urgent Weather Message	3/30/2017	0413	PDT	San Diego	<p>...<b>HIGH WIND WARNING REMAINS IN EFFECT FROM NOON TODAY TO 11 PM PDT THIS EVENING...</b></p> <ul style="list-style-type: none"> <li>* WINDS...Sustained west winds of 20 to 40 mph. Gusts up to 80 mph along mountain tops and the desert mountain slopes. Gusts up to 60 mph in the Coachella Valley and San Diego County desert.</li> <li>* TIMING...Winds will increase this morning, becoming strong and with the potential for damage this afternoon and evening. The strongest winds are expected between 3 and 8 PM.</li> <li>* LOCATION...From the mountain tops to the desert floor.</li> <li>* VISIBILITY...Severe restrictions of a quarter of a mile or less in blowing dust and sand possible in the deserts.</li> </ul>	102
Area Forecast Discussion	3/30/2017	0815	MST	Phoenix	<p>...A very powerful and dynamic Pacific weather system was approaching AZ this morning. ....We mentioned powerful because it will continue to intensify as it tracks toward northern AZ today.....And, because of how cold and dense the airmass will become following the cold front from the north, <b>powerful wind gusts are expected across portions of southeast CA and southwest AZ this evening</b>, i.e. gusts to 50 mph possible....In summary, the <b>biggest weather threat</b> for our forecast area, since this system is relatively dry for <b>southeast CA and southern AZ is wind, lots of it and strong</b>. A wind advisory is already posted for a large part of southeast CA and southwest AZ for late this afternoon through 11 pm mst tonight. This will perhaps be followed a little later by a blowing dust advisory for this evening due to the blowing dust and sand potential, especially dusty areas emanating from the Mohave Desert since a high wind warning is posted for that area. ...</p>	104

TYPE	DATE	TIME	AGENCY	DESCRIPTION	PAGE	
Area Forecast Discussion	3/30/2017	0915	PDT	San Diego	<p>...Current forecast is on track today and all models are showing a <b>strong wind event in the mountains and deserts.....A deep trough over central CA will intensify and move southeast across the California interior through this evening. This deep trough is unusually strong with 850 mb winds of 50-55 kts between 18-06Z. Winds this strong occur about once every 10 years, and are 3-4 standard anomalies above normal. Desert winds of 30-40 mph will gust to 60 mph or more. Strong wind gusts in mountain waves down the eastern slopes of the mountains will surface in parts of the Coachella Valley and the San Diego County Deserts.</b></p> <p>Strong cross winds and reduced vis in blowing dust and sand will create hazardous travel conditions. A High Wind Warning is in effect from Noon to 11 pm today.</p>	108
Urgent Weather Message	3/30/2017	1016	MST	Phoenix	<p><b>...Strong winds and Blowing Dust...Eastern Deserts-Imperial County-... ...BLOWING DUST ADVISORY IN EFFECT FROM 3 PM MST /3 PM PDT/ THIS AFTERNOON TO 11 PM MST /11 PM PDT/ THIS EVENING... ...WIND ADVISORY REMAINS IN EFFECT FROM 2 PM MST /2 PM PDT/ THIS AFTERNOON TO 11 PM MST /11 PM PDT/ THIS EVENING...</b></p> <p>In addition to a Wind Advisory issued earlier, the National Weather Service in Phoenix has also issued a <b>Blowing Dust Advisory from 3 PM MST /3 PM PDT/ this afternoon to 11 PM MST /11 PM PDT/ this evening.</b></p> <p><b>* AFFECTED AREA...</b>eastern Riverside and <b>Imperial Counties</b> in California, and La Paz and Yuma Counties in Arizona. This includes Interstates 10 and 8 across southeast California including the Colorado River.</p>	111
Urgent Weather Message	3/30/2017	1223	PDT	San Diego	<p><b>...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 11 PM PDT THIS EVENING... * WINDS...</b>Sustained west winds of 20 to 40 mph. Gusts up to 80 mph along mountain tops and the desert mountain slopes. Gusts up to 60 mph in the Coachella Valley and San Diego County desert.</p> <p><b>* TIMING...</b>This afternoon and evening. The strongest winds are expected between 3 and 9 PM.</p> <p><b>* LOCATION...</b>From the mountain tops to the desert floor.</p> <p><b>* VISIBILITY...</b>Severe restrictions of a quarter of a mile or less in blowing dust and sand at times in the deserts.</p> <p><b>* IMPACTS...</b>Hazardous travel conditions at times due to low visibility in blowing sand and dust, and sudden, strong cross- winds. Difficult travel for high-profile vehicles, especially Big Rigs which are prone to toppling. Minor structural and tree damage possible.</p> <p><b>* OUTLOOK...</b>Winds will turn northerly tonight and be quite gusty from the northern Coachella Valley and through the Cajon Pass,but not as strong. Gusty northerly winds Friday morning will decrease in the afternoon.</p>	114
Area Forecast Discussion	3/30/2017	1345	PDT	San Diego	<p><b>...Severe and potentially damaging winds this afternoon and evening over the mountains and deserts...Some of this wind energy will also surface in parts of the Coachella Valley and the San Diego County Deserts where gusts of 50-60 mph are possible.</b> Strong cross winds and reduced vis in blowing dust and sand will create hazardous travel conditions. <b>A High Wind Warning is in effect through 11 pm this evening.</b></p>	116

TYPE	DATE	TIME		AGENCY	DESCRIPTION	PAGE
Urgent Weather Message	3/30/2017	1612	PDT	San Diego	<p>...<b>Damaging winds in the Mountains and Deserts through this evening</b>...A deep low pressure system over the Great Basin will generate very strong westerly winds through this evening over the mountains and deserts. Wind gusts over 60 mph will continue with some damage to trees and utility systems. <b>Blinding dust and sand will occur in areas over the deserts</b>. The winds will diminish and turn northerly late tonight but remain gusty through Friday.....Coachella Valley-San Diego County Deserts.....<b>HIGH WIND WARNING REMAINS IN EFFECT UNTIL 11 PM PDT THIS EVENING</b>... * <b>WINDS</b>...Sustained west winds of 20 to 40 mph. Gusts up to 80 mph along mountain tops and the desert mountain slopes. Gusts up to 60 mph in the Coachella Valley and San Diego County desert.</p> <p>* <b>TIMING</b>...now through this evening. The strongest winds are expected to occur through 9 PM this evening.</p> <p>* <b>LOCATION</b>...From the mountain tops to the desert floor.</p> <p>* <b>REPORTS</b>...At 343 PM a wind gust of 64 mph was recorded at Palm Springs Regional Airport.</p> <p>* <b>OUTLOOK</b>...Winds will turn northerly tonight and be quite gusty from the northern Coachella Valley and through the Cajon Pass, but not as strong. Gusty northerly winds Friday morning will decrease in the afternoon.</p>	119
Urgent Weather Message	3/30/2017	1849	MST	Phoenix	<p>...<b>Strong winds and blowing dust this evening...Eastern Deserts-Imperial County</b>...<b>BLOWING DUST ADVISORY REMAINS IN EFFECT UNTIL 11 PM MST /11 PM PDT/ THIS EVENING</b>.....<b>WIND ADVISORY REMAINS IN EFFECT UNTIL 11 PM MST /11 PM PDT/THIS EVENING</b>...</p> <p>* <b>AFFECTED AREA</b>...eastern Riverside and Imperial Counties in California, and La Paz and Yuma Counties in Arizona. This includes Interstates 10 and 8 across southeast California including the Colorado River.</p> <p>* <b>TIMING</b>...Thursday afternoon through late evening.</p> <p>* <b>WINDS</b>...West to northwest winds of 25 to 40 mph with gusts to 50 mph. The strongest winds will be focused over eastern Riverside, La Paz and northern Yuma counties, and along the Colorado River Valley.</p> <p>* <b>VISIBILITY</b>...Below 1 mile at times.</p> <p>* <b>Impacts</b>...Strong winds will create difficult driving conditions especially for high profile vehicles, and Colorado River boaters. Reduced visibility under a mile in blowing dust is likely.</p>	121
Urgent Weather Message	3/30/2017	1932	MST	Phoenix	<p>...<b>Strong winds and blowing dust this evening...Eastern Deserts-Imperial County</b>...<b>BLOWING DUST ADVISORY REMAINS IN EFFECT UNTIL 11 PM MST /11 PM PDT/ THIS EVENING</b>.....<b>WIND ADVISORY REMAINS IN EFFECT UNTIL 11 PM MST /11 PM PDT/THIS EVENING</b>...</p> <p>* <b>AFFECTED AREA</b>...eastern Riverside and Imperial Counties in California, and La Paz, Yuma, and western Maricopa Counties in Arizona. This includes Interstates 10 and 8 across southeast California and southwest Arizona</p> <p>* <b>TIMING</b>...Thursday afternoon through late evening.</p> <p>* <b>WINDS</b>...West to northwest winds of 25 to 40 mph with gusts to 50 mph. The strongest winds will be focused over eastern Riverside, La Paz and northern Yuma counties, and along the Colorado River Valley.</p> <p>* <b>VISIBILITY</b>...Below 1 mile at times.</p> <p>* <b>Impacts</b>...Strong winds will create difficult driving conditions especially for high profile vehicles, and Colorado River boaters. Reduced visibility under a mile in blowing dust is likely.</p>	123
Public Information Statement	3/30/2017	2110	MST	Phoenix	<p>...<b>California.....Imperial County... Mountain Springs Grade 58 MPH 2 N Salton City 44 MPH; 2 ESE Niland 44 MPH; Imperial County Airport 38 MPH</b></p>	127

TYPE	DATE	TIME		AGENCY	DESCRIPTION	PAGE
Area Forecast Discussion	3/30/2017	2140	PDT	San Diego	<p>...Winds Peaked Across the Mountains/Deserts and will subside...<b>Severe winds impacted the mountain tops to the desert floor this afternoon and evening.</b> Peak gusts were 94 mph at Burns Canyon, <b>69 mph at Anza Borrego Desert Research Center</b>, 68 mph at Whitewater, 66 mph at Palm Springs and 60 mph at Victorville.</p> <p><b>Blowing dust and sand resulted in severe visibility restrictions in areas and some trees toppling along with some damage to awnings and signs in the Coachella Valley</b> with 2 injuries reported. Some roads impacted by sand and 100s of tumbleweeds, leading to closures. Quite an impactful day in the deserts! The winds have peaked and will continue to subside this evening and overnight as they turn northerly. Hi-res models continue to show that as the winds switch to the north they will not be so strong.</p>	129
Area Forecast Discussion	3/30/2017	2151	MST	Phoenix	<p><b>A strong cold front is advancing east-southeastward across southwest Arizona, bringing widespread blowing dust with visibilities under one mile in many locations. Wind speeds have also strengthened both ahead of and behind the front, with frequent gusts of 30-40 mph being observed across south-central and southwest Arizona.</b></p>	132
Urgent Weather Message	3/30/2017	2244	MST	Phoenix	<p><b>...BLOWING DUST ADVISORY WILL EXPIRE AT 11 PM MST /11 PM PDT/ THIS EVENING...</b></p> <p><b>...WIND ADVISORY WILL EXPIRE AT 11 PM MST /11 PM PDT/ THIS EVENING...</b></p> <p>A strong cold front has shifted east of the area, into central Arizona. Wind gusts of 30-35 mph are still occurring, but have gradually weakened in the wake of the front and should continue to weaken overnight.</p>	135

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AFDSGX

Area Forecast Discussion  
National Weather Service San Diego CA  
300 AM PDT Mon Mar 27 2017

.SYNOPSIS...

A low pressure system moving inland through Southern California early this morning will bring stronger onshore flow with strong gusty west winds in the mountains and deserts into early evening. This will be followed by strong gusty north winds late tonight into Tuesday. High temperatures will warm into Wednesday with Wednesday high temperatures 10 to 15 degrees above average. A low pressure system moving through the Great Basin into the southwest states will bring inland cooling for Thursday and Friday...gusty west winds for Thursday...and gusty north winds for Friday into Saturday. Weaker winds with some warming possible for next weekend.

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.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...  
SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO  
COUNTIES...

.SHORT TERM (Today through Wednesday)...

A trough of low pressure will move inland through Southern California early this morning bringing stronger onshore flow today. Satellite imagery early this morning shows the most widespread low cloud coverage in the inland valleys onto the lower coastal slopes of the mountains with patchier coverage toward the coast and over the coastal waters. While a few sprinkles are possible this morning...no precipitation of significance is expected.

The stronger onshore flow will bring periods of strong gusty west winds in the mountains and deserts today...weakening during the evening. As the low pressure system moves into Arizona...strong gusty north winds will develop in portions of the mountains and valleys of southwestern San Bernardino and western Riverside Counties...near the Santa Ana Mountains...and in the northern Coachella valley late tonight and continue into Tuesday. Winds will weaken Tuesday night and Wednesday.

High temperatures will warm to near average today...to around 5 degrees above average on Tuesday...and to around 10 to 15 degrees above average on Wednesday as high pressure aloft moves across California.

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**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

.LONG TERM (Thursday through Sunday)...

A closed low pressure system will move into the Great Basin on Thursday and into Arizona Friday. The global models begin to diverge somewhat from Saturday into next week with the movement of that low pressure system into the plains and upstream low pressure systems moving across the eastern Pacific.

In advance of this low pressure system...stronger onshore flow will develop on Thursday with gusty west winds in the mountains and deserts and cooling to near to slightly above average. High temperatures will cool to near average on Friday with gusty north winds for inland areas. Winds will weaken with some warming for next weekend...though how much and for how long differs depending on the model.

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.AVIATION...

270915Z...Low clouds with bases varying between 1800-3800 feet msl will continue over most of the coastal basin this morning. Tops about 4000 feet and local terrain obscured at around that level. Scatter out to occur starting from the coast toward the coastal slopes during the morning with coastal airports by around 18Z. Some low clouds at around 1800 feet msl redeveloping after 02Z this evening mainly in San Diego County. Strong westerly winds 20-40 kt through mountains and along desert slopes and parts of the desert today. Pockets of strong up/downdrafts and LLWS over and east of the mountains. Winds shifting toward the northeast tonight after 04Z and becoming quite strong, resulting in strong up/downdrafts and LLWS over and west of the mountains and immediately below the canyons and passes.

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.MARINE...

Strong northwest winds and rough seas will make boating conditions hazardous today into Tuesday. A Small Craft Advisory remains in effect and contains the details. Northwest winds will increase again Thursday and continue through Friday leading to more choppy and hazardous boating conditions.

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.BEACHES...

Occasional surf sets could reach 7 feet during the middle of the week.

&&

.SKYWARN...

Skywarn activation is not requested. However weather spotters are encouraged to report significant weather conditions.

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**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...Wind Advisory until 10 PM PDT this evening for Apple and Lucerne Valleys-San Diego County Deserts-San Diego County Mountains.

Wind Advisory from 10 PM this evening to 2 PM PDT Tuesday for San Bernardino and Riverside County Valleys-The Inland Empire-Santa Ana Mountains and Foothills.

Wind Advisory until 2 PM PDT Tuesday for Riverside County Mountains-San Bernardino County Mountains-San Geronio Pass Near Banning.

PZ...Small Craft Advisory until 8 PM PDT Tuesday for Waters from San Mateo point to the Mexican Border Extending 30 to 60 nm out including San Clemente Island.

Small Craft Advisory from 1 PM this afternoon to 8 PM PDT Tuesday for Coastal Waters from San Mateo Point to the Mexican Border and out to 30 nm.

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PUBLIC...17

AVIATION/MARINE/BEACHES...MM

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## Forecasting if primarily for Arizona and not California

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FXUS65 KPSR 271045

AFDPSR

## Area Forecast Discussion

National Weather Service Phoenix AZ

345 AM MST Mon Mar 27 2017

## .SYNOPSIS...

Another Pacific cold front is expected to affect the region from Monday afternoon into Tuesday. This system will bring shower chances to the higher terrain of South-Central AZ, along with gusty winds across the entire region. The strongest winds, along with areas of blowing dust are forecast to develop over portions of southwest AZ and Southeast CA. High pressure will then redevelop across the region Wednesday and most of Thursday, ahead of another weather system than is expected to move into the Desert Southwest on Friday and Saturday.

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## .DISCUSSION...

Mostly clear skies across our CWA this morning as our area sits under a weak short wave ridge with a fast approaching trough to our west. This is clearly seen in GOES water vapor imagery. IR satellite indicates some high and mid level clouds beginning to develop on the leading edge of the trough over portions of Southern California. These clouds will continue to advance eastward throughout the day today as the trough pushes inland.

Since moisture is rather limited with this system, we are expecting very little, if any precipitation across our area on Monday. A very slight chance is possible for elevated portions of Gila county late this afternoon where the system's dynamics combined with the westerly orographic flow could squeeze out a few drops. However, the main impact with this system will be winds. Surface westerly winds will gradually increase across our area on Monday with the strongest winds focused in SE California. Additionally, as the winds strengthen across SE California during Monday afternoon, isolated pockets of blowing dust and sand are possible.

Early Tuesday, the system gradually moves eastward and digs deeper across our area. This will position us under the dryer backside of the trough which will gradually turn winds from westerly to more northerly. During this period, winds are expected to gust up to 50 mph across Joshua Tree National Park, especially across the wind prone locations, and up to 40 mph across the lower portions of the Colorado River Valley. This will very likely kick up dust and sand and cause reduced visibilities on the roadway, not to mention the strong cross wind creating difficult driving conditions across I-10.

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

Phoenix office only forecasting for  
Arizona not California

The system slowly moves eastward Tuesday night and winds diminish. Models are in fairly good agreement of a transient ridge building over the area Wednesday into Thursday which is forecast to push our temperatures back into the upper 80s across the Phoenix area. However, models show yet another trough diving down from the Pacific Northwest and into our area on Friday. This will cause a rather sharp cooling trend into Friday with highs at least 10 degrees cooler than Thursday. While the details are still uncertain, the system does look cooler than the one expected Monday/Tuesday and precipitation amounts do look rather slim again. As with all these passing upper level troughs, this one looks to kick up surface winds again.

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.AVIATION...

South-Central Arizona including KPHX, KIWA, and KSDL:

Weak short wave ridge to move east across the area tonight into Monday allowing increasing mid/high clouds to spread into the greater Phoenix area. Expect SCT-BKN decks aoa 20k feet after midnight with some mid cloud decks down to around 10-12k feet by Monday morning. Winds next 24 hours should be mostly below 12kt following typical diurnal trends with potential for some afternoon/evening gusts Monday to 18kt or so ahead of an approaching upper low.

Southeast California/Southwest Arizona including KIPL and KBLH:

As an upper low approaches tonight into Monday, an increase in mainly high cloud is expected with SCT to BKN decks aoa 20k feet along with some mid decks down to 10-12k feet. After 18z or so Monday skies should become genly clear. Wind will become an issue later Monday especially at KIPL as gradients tighten; mostly west winds less than 12 kt at KIPL thru Monday morning then increasing quite a bit during the afternoon with peak gusts over 25kt possible by 20z. A bit less wind at KBLH but similar trends/tendencies. Gusts in the afternoon/evening could generate some blowing dust/sand but vsbys should stay above 6 SM for the most part; confidence rather low that restricted vsbys will be seen at the TAF sites.

Aviation discussion not updated for amended TAFs.

&&

.FIRE WEATHER...

Tuesday through Saturday...

Active storm pattern will remain over the Intermountain West at least through the end of the month and possibly into early April as a series of Pacific storms pass through. Breezy weather will remain a common feature of most afternoons/early evenings for the districts with daytime humidity levels ranging 10-25 percent at their driest. With an active storm track over the area,

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

temperatures will trend more towards seasonal averages. Periods of stronger winds in combination with drier air working into portions of the area may lead to a locally elevated fire danger/critical fire weather conditions for some locales Tuesday and again on Friday as another storm transitions in. A fair bit of uncertainty remains with the track of the next few systems to move through the region in the far extended period that may ramp up or back off concerns for elevated/critical fire danger.

&amp;&amp;

.SPOTTER INFORMATION STATEMENT...

Spotters are encouraged to follow reporting procedures with criteria reports this week.

&amp;&amp;

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...Wind Advisory from 3 AM to 4 PM MST Tuesday for AZZ020-021-026.

CA...Wind Advisory from 7 PM this evening to 4 PM PDT Tuesday for CAZ030>033.

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DISCUSSION...Wilson

AVIATION...CB

FIRE WEATHER...Nolte

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781  
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AFDSGX

Area Forecast Discussion  
National Weather Service San Diego CA  
200 PM PDT Tue Mar 28 2017

.SYNOPSIS...

Locally gusty winds will occur below passes and canyons through Wednesday, mainly below Cajon Pass. Otherwise, skies will be clear through Wednesday with a warming trend, with highs mostly in the 80s in the valleys by Wednesday and lower 90s in the lower deserts. Low pressure aloft will move by to the northeast Thursday and Friday and bring cooling along with gusty west winds to the mountains and deserts Thursday with some northerly winds developing Friday. Warmer weather will return over the weekend under weak high pressure, but low pressure will bring cooling again early next week.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...  
SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO  
COUNTIES...

Skies were sunny with temperatures in the 60s along the coast, 70s in the valleys and Inland Orange County and around 80 in the lower deserts. Winds were still gusting to 35-45 MPH near and just below mountain crests in San Bernardino County and the Santa Ana Mountains, but the trend is downward, and the wind advisory will expire at 2 PM. Some NE winds were also occurring in the Coachella Valley from the Joshua Tree area. Winds tonight should mostly stay below wind advisory criteria but gusts to around 40 MPH will occur late tonight and early Wednesday in the same windier spots as mentioned above.

High pressure aloft will build over the east Pacific with a moderate ridge extending to Nevada and Utah by Wednesday. Strong moist zonal flow will occur over the Pacific Northwest. Due to clear skies and a warm profile, with 850 MB temps rising to around 15 C, surface temperatures will respond and reach levels of 7-15 deg F above

normal Wednesday. Onshore flow will start to develop again Wednesday afternoon which could bring a few low clouds or fog to the coast Wednesday night, though this is more likely Thursday night after a period of stronger onshore flow from the next low pressure system coming down from the north. This low will track from far northern California Thursday southeast to Arizona Friday.

Height/temperature/pressure gradients will be tight on the west/southwest side of the low and result in strong west winds in the mountains and deserts Thursday afternoon/evening. High-res models are indicating strong winds could make it into populated parts of the Coachella Valley, which is more typical with synoptic scale winds versus mountain wave winds. Northerly winds, similar to

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

those of this morning, could form Friday as pressure gradients turn offshore. With the upper low nearby, temperatures will decrease Thursday and Friday, with temperatures a little below normal Friday. With the progressive spring pattern, the upper low, despite being closed, will move east over the weekend, with warming again over So-Cal. More troughs could move down from the N/NW early next week for cooling, but models are very inconsistent with details as GFS and especially GEM are stronger with the troughs, but ECMWF has weak ridging.

&amp;&amp;

.AVIATION...

282000Z...VFR conditions will prevail through the period under a clear sky. Locally gusty NNE winds have hit KPSP and expected to continue over the next couple of hours before diminishing. Winds elsewhere will gradually lessen as well with light winds tonight through Wednesday.

&amp;&amp;

.MARINE...

The Small Craft Advisory was cancelled as seas are below 10 feet along with wind gusts prevailing at less than 20 kt. Winds and seas will continue to lower through Wednesday. However, strong winds and large combined seas are expected again late Thursday through Friday.

&amp;&amp;

.BEACHES...

Surf of 3 to 6 feet with occasional higher sets will continue at times through early next week.

&amp;&amp;

.SKYWARN...

Skywarn activation is not requested. However weather spotters are encouraged to report significant weather conditions.

&amp;&amp;

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...None.

PZ...None.

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PUBLIC...Maxwell

AVIATION/MARINE/BEACHES...Gregoria

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592  
WWUS76 KSGX 290312  
NPWSGX

URGENT - WEATHER MESSAGE  
National Weather Service San Diego CA  
812 PM PDT Tue Mar 28 2017

...Strong Westerly Winds Possible for the Mountains and deserts...

.A rapidly developing storm system over the Great Basin will force strong westerly winds over the mountains and deserts from Thursday afternoon into Thursday night.

CAZ055-056-058-060>062-065-291300-  
/O.NEW.KSGX.HW.A.0005.170330T1900Z-170331T1100Z/  
San Bernardino County Mountains-Riverside County Mountains-  
San Diego County Mountains-Apple and Lucerne Valleys-  
Coachella Valley-San Diego County Deserts-  
San Gorgonio Pass Near Banning-  
Including the cities of Lake Arrowhead, Big Bear City,  
Big Bear Lake, Wrightwood, Julian, Pine Valley, Victorville,  
Hesperia, Apple Valley, Indio, Palm Springs, Cathedral City,  
Palm Desert, Palm Desert Country, La Quinta, Coachella,  
Borrego Springs, and Desert Hot Springs  
812 PM PDT Tue Mar 28 2017

...HIGH WIND WATCH IN EFFECT FROM THURSDAY AFTERNOON THROUGH LATE THURSDAY NIGHT...

The National Weather Service in San Diego has issued a High Wind Watch, which is in effect from Thursday afternoon through late Thursday night.

- \* WINDS...Westerly 30 to 45 MPH with areas of 55 to 65 MPH gusts near the desert slopes and foothills.
- \* TIMING...Winds increasing Thursday morning and becoming strong and gusty in the afternoon. Strongest winds are expected Thursday evening.
- \* LOCATION...The higher mountains and deserts. Strongest on the desert slopes and near the desert foothills.
- \* VISIBILITY...Locally reduced in areas of blowing dust and sand.
- \* IMPACTS...Hazardous travel conditions at times due to reduced visibility in blowing sand and dust, debris on roadways, and sudden, strong cross-winds. Minor structural and tree damage possible.
- \* OUTLOOK...Winds turning northerly Thursday night and remaining



### March 30, 2017 Exceptional Event, Imperial County

gusty in some areas, but decreasing on Friday.

#### PRECAUTIONARY/PREPAREDNESS ACTIONS...

A High Wind Watch means there is the potential for a hazardous high wind event. Sustained winds of at least 40 mph...or gusts of 58 mph or stronger may occur. Continue to monitor the latest forecasts.

&&

\$\$

JAD

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576  
FXUS66 KSGX 290402  
AFDSGX

Area Forecast Discussion  
National Weather Service San Diego CA  
902 PM PDT Tue Mar 28 2017

.SYNOPSIS...

Locally gusty winds will occur below passes and canyons through Wednesday, mainly below Cajon Pass. Otherwise, skies will be clear through Wednesday with a warming trend. Highs will be mostly in the 80s in the valleys by Wednesday, and lower 90s in the lower deserts.

A deep low pressure center will develop over the Great Basin late Thursday and Friday. It will mean strong mountain and desert winds and cooling. Warmer weather will return over the weekend under weak high pressure, but low pressure will bring cooling again early next week.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...  
SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO  
COUNTIES...

Skies were mostly clear this evening across the forecast area. The 00Z Miramar sounding showed continued warming, and a layer of easterly winds of 10-15 KTS had developed between 3K and 8K FT. This is a good sign that we will see much warmer weather tomorrow. Surface pressure gradients were still 2-4 MBS onshore to the lower deserts at 8 PM PDT, but were accelerating offshore from SW NV at around 6 MBS. Even in wind-prone areas though, peak gusts were below 30 MPH.

No changes through Wednesday, but a High wind Watch has been issued for Thu PM for the mts/deserts. Models continue to show a powerful Spring storm wrapping up over NV/UT Thu night into Fri. Rapidly falling sfc pressure over NV will combine with increasing winds aloft to pose a high wind potential across eastern portions of the forecast area. The local WRF and MOS guidance suggest there is at least a moderate potential for wind gusts exceeding 55 MPH with possible mountain wave activity affecting the lower deserts.

From previous discussion...

High pressure aloft will build over the east Pacific with a moderate ridge extending to Nevada and Utah by Wednesday. Strong moist zonal flow will occur over the Pacific Northwest. Due to clear skies and a warm profile, with 850 MB temps rising to around 15 C, surface temperatures will respond and reach levels of 7-15 deg F above normal Wednesday. Onshore flow will start to develop again Wednesday afternoon which could bring a few low clouds or fog to the coast Wednesday night, though this is more likely Thursday night after a

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

period of stronger onshore flow from the next low pressure system coming down from the north. This low will track from far northern California Thursday southeast to Arizona Friday. Height/temperature/pressure gradients will be tight on the west/southwest side of the low and result in strong west winds in the mountains and deserts Thursday afternoon/evening. High-res models are indicating strong winds could make it into populated parts of the Coachella Valley, which is more typical with synoptic scale winds versus mountain wave winds. Northerly winds, similar to those of this morning, could form Friday as pressure gradients turn offshore. With the upper low nearby, temperatures will decrease Thursday and Friday, with temperatures a little below normal Friday. With the progressive spring pattern, the upper low, despite being closed, will move east over the weekend, with warming again over So-Cal. More troughs could move down from the N/NW early next week for cooling, but models are very inconsistent with details as GFS and especially GEM are stronger with the troughs, but ECMWF has weak ridging.

&amp;&amp;

.AVIATION...

290330Z...Local gusty N-NE winds will create pockets of LLWS through and below the passes and canyons. Otherwise mostly clear with unrestricted vis through Wednesday evening.

&amp;&amp;

.MARINE...

No hazardous marine weather is expected through Thursday morning. Gusty northwest winds 20-25 kt and large combined seas are expected again late Thursday through Friday.

&amp;&amp;

.BEACHES...

Surf of 3 to 6 feet with occasional higher sets will continue at times through early next week.

&amp;&amp;

.SKYWARN...

Skywarn activation is not requested. However weather spotters are encouraged to report significant weather conditions.

&amp;&amp;

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...None.

PZ...None.

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973  
WWUS76 KSGX 290900  
NPWSGX

URGENT - WEATHER MESSAGE  
National Weather Service San Diego CA  
200 AM PDT Wed Mar 29 2017

...Strong Westerly Winds Possible for the Mountains and deserts...

.A rapidly developing storm system over the Great Basin will force strong westerly winds over the mountains and deserts from Thursday afternoon through Thursday night.

CAZ055-056-058-060>062-065-292100-  
/O.CON.KSGX.HW.A.0005.170330T1900Z-170331T1100Z/  
San Bernardino County Mountains-Riverside County Mountains-  
San Diego County Mountains-Apple and Lucerne Valleys-  
Coachella Valley-San Diego County Deserts-  
San Gorgonio Pass Near Banning-  
Including the cities of Lake Arrowhead, Big Bear City,  
Big Bear Lake, Wrightwood, Julian, Pine Valley, Victorville,  
Hesperia, Apple Valley, Indio, Palm Springs, Cathedral City,  
Palm Desert, Palm Desert Country, La Quinta, Coachella,  
Borrego Springs, and Desert Hot Springs  
200 AM PDT Wed Mar 29 2017

...HIGH WIND WATCH REMAINS IN EFFECT FROM THURSDAY AFTERNOON  
THROUGH LATE THURSDAY NIGHT...

- \* WINDS...Westerly 30 to 45 MPH with gusts up to 65 MPH near the desert slopes and foothills.
- \* TIMING...Winds increasing Thursday morning and becoming quite strong and gusty in the afternoon. Strongest winds Thursday evening. Winds will switch to northerly Thursday night and could remain strong through early Friday morning.
- \* LOCATION...The higher mountains and deserts with strongest winds on the desert slopes and near the desert foothills.
- \* VISIBILITY...Blowing dust and sand will reduce visibility at times to as low as 1 mile.
- \* IMPACTS...Hazardous travel conditions at times due to low visibility in blowing sand and dust, debris on roadways, and sudden, strong cross-winds. Difficult travel for high-profile vehicles. Minor structural and tree damage possible.
- \* OUTLOOK...Winds turning northerly Thursday night and remaining strong in some areas, but then decreasing on Friday.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

A High Wind Watch means there is the potential for a hazardous high wind event. Sustained winds of at least 40 mph...or gusts of 58 mph or stronger may occur. Continue to monitor the latest forecasts.

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jmb

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500  
FXUS66 KSGX 290930  
AFDSGX

Area Forecast Discussion  
National Weather Service San Diego CA  
230 AM PDT Wed Mar 29 2017

...Very strong and potentially damaging winds possible Thursday afternoon through evening in the mountains and deserts...

.SYNOPSIS...

Skies will be clear today with warmer weather all areas due to passing high pressure. Highs will be mostly in the 80s in the valleys and lower 90s in the lower deserts. A strong low pressure system will develop over the Great Basin Thursday through Friday. It will bring very strong mountain and desert winds and cooler weather all areas. Warmer weather will return over the weekend under weak high pressure, but low pressure will bring cooler conditions again by early next week.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...  
SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO  
COUNTIES...

A transitory upper ridge will bring a warmup today for most areas with temperatures likely to trend about 10 degrees above normal for most areas. It will also be mainly sunny today.

A deep low with good model consensus will develop on Thursday over the Great Basin and create a very strong gradient over our mountains and deserts. A strong jet rounding the low will bring upper-level support for the potential for strong damaging winds over the mountains and deserts. The peak of the wind event is likely to be Thursday evening. Surfacing mountain waves over the Coachella Valley will be a significant concern where the potential for wind damage could occur, as well as in parts of the Mojave Desert, with blowing sand and dust also a possible significant impact in those areas. By this afternoon the forecast through Friday morning will have better confidence with full resolution short term models available to make a decision on issuing the high wind warning, so for now we have opted to continue the high wind watch in effect for most of the mountain and desert areas.

The wind will quickly switch to northerly late Thursday night, and could bring another round of strong wind gusts through early Friday morning.

High pressure will gradually build in for the weekend with moderating temperatures and lighter winds. Another weak trough slated for Monday and Tuesday next week will bring another

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

cooldown and another possible strong wind event. It is spring afterall!

&&

.AVIATION...

290900Z...Local gusty N-NE winds will create pockets of LLWS through and below the passes and canyons this morning through 18Z. Clear skies today and tonight except for patchy fog along the coast after 06Z not likely to impact coastal airports.

&&

.MARINE...

No hazardous marine weather is expected through Thursday morning. Gusty northwest winds 15-25 kt and increasing combined seas are expected late Thursday into Friday.

&&

.SKYWARN...

Skywarn activation is not requested. However weather spotters are encouraged to report significant weather conditions.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...High Wind Watch from Thursday afternoon through late Thursday night for Apple and Lucerne Valleys-Coachella Valley-Riverside County Mountains-San Bernardino County Mountains-San Diego County Deserts-San Diego County Mountains-San Gorgonio Pass Near Banning.

PZ...None.

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PUBLIC...Brotherton  
AVIATION/MARINE...MM

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778  
FXUS65 KPSR 291043  
AFDPSR

Area Forecast Discussion  
National Weather Service Phoenix AZ  
343 AM MST Wed Mar 29 2017

.SYNOPSIS...

High pressure building across the Desert Southwest will result in a warming trend through Thursday. A strong low pressure system will then produce windy conditions Thursday along with much cooler temperatures Friday. Scattered precipitation is possible across the higher terrain of eastern Arizona Saturday as the storm lingers. Warmer conditions will then return Sunday as high pressure again builds across the region.

&&

.DISCUSSION...

Overall weather pattern will remain transitory with several similar systems affecting the Desert Southwest through next week. Latest streamline analysis shows a broad ridge building in across the California coast in the wake of the departing upper low across New Mexico. Thickness rises will translate into a warming trend through Thursday, with above normal temperatures expected.

A Pacific low pressure system dropping into the Great Basin will strengthen, ultimately closing off across Utah Thursday evening. Windy conditions will develop ahead of this low during the afternoon and evening with the latest NAEFS percentiles indicating speeds widespread above the 90th percentile and even approaching the 99th percentile in some spots. A significant cooldown is expected Friday as the low drifts towards the Four Corners with high temperatures struggling to reach the lower 70s in the lower deserts.

Not unlike the last upper low, the next one will also likely feature a vort max slowing the progression of the low, which will generate ascent across eastern Arizona Saturday. Latest models including the CAMs suggest some potential for scattered shower activity during the afternoon mainly across eastern Arizona, though Lifted Indices generally remain unimpressive south of the Mogollon Rim.

Temperatures will rebound quickly Sunday as another positively-oriented Pacific ridge builds eastward. Earlier runs of the GFS and ECMWF were quite divergent for early next week, however the most recent runs have come into much better agreement. Latest forecast generally reflects a blend of the multi-model ensemble, which suggests yet another weaker low pressure system will pass by to our north Monday. Subtle cooling behind this trough Tuesday will then again be supplanted by another ridge and subsequent warming Wednesday.



&&

.AVIATION...

South-Central Arizona including KPHX, KIWA, and KSDL:

Upper low continues to shift east allowing gradients to relax; locally breezy west/northwest winds should continue to taper off overnight with winds tending to favor the north to northeast by early Wednesday as north-south surface gradients set up. Wind speeds to be mostly below 10kt rest of tonight into Wed morning. Expect winds to favor the north to northwest by Wednesday afternoon with a few gusts over 15kt possible. Skies to be mostly clear; just a few mid cloud decks with bases around 9-11kt feet to linger past midnight and into the morning hours Wed.

Southeast California/Southwest Arizona including KIPL and KBLH:

Less wind expected over the next 24 hours compared to what we have seen earlier today as gradients gradually relax. Light west winds at KIPL will pick up a bit Wed midday and turn towards the north. Somewhat stronger winds to persist at KBLH as northerly flow aloft behind the exiting low persists; we could see a few gusts over 20kt overnight tonight and thru the afternoon on Wednesday. Best potential for gusts though will be after 15z Wed into the afternoon hours. Skies to be genly clear through Wed afternoon at the TAF sites.

Aviation discussion not updated for amended TAFs.

&&

.FIRE WEATHER...

Thursday through Monday:

The weather pattern will remain relatively active across the Desert Southwest through early next week, though in general precipitation is not expected. Only exception will be in the higher terrain well north and east of Phoenix. Main weather impact will be breezy to windy conditions, which are expected to redevelop Thursday and Friday as the next low pressure system moves through the region. With RHs generally remaining below 15 percent, elevated fire danger will again be a possibility for a few hours across southeastern California, particularly Thursday afternoon. Thereafter, the low pressure system will likely move through Arizona Saturday, bringing below normal temperatures along with a general decrease in wind and an increase in moisture. High pressure will follow for Sunday and Monday, resulting in a warming trend and a return to above normal temperatures. Otherwise, little to no changes were needed in the morning update to capture hourly trends.

&&

.SPOTTER INFORMATION STATEMENT...

Spotters should follow standard reporting procedures this week.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...  
 AZ...None.  
 CA...Wind Advisory from 2 PM Thursday to 5 AM PDT Friday for CAZ030.

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DISCUSSION...Hirsch  
 AVIATION...CB  
 FIRE WEATHER...Hirsch

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 Department of Agronomy

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214  
FXUS65 KPSR 291641  
AFDPSR

Area Forecast Discussion  
National Weather Service Phoenix AZ  
941 AM MST Wed Mar 29 2017

.SYNOPSIS...

High pressure building across the Desert Southwest will result in a warming trend through Thursday. A strong low pressure system will then produce windy conditions Thursday along with much cooler temperatures Friday. Scattered precipitation is possible across the higher terrain of eastern Arizona Saturday as the storm lingers. Warmer conditions will then return Sunday as high pressure again builds across the region.

&&

.DISCUSSION...

Visible satellite imagery shows clear skies this morning across much of the region, as a deep-layer cyclone has shifted eastward into the Great Plains, and ridging has built over the Southwest. Observational trends show temperatures are running generally 2-5 degrees warmer compared to 24 hours ago. High temperatures are still on track to reach the mid-80s across most areas today, and conditions will remain pleasant. Concerns shift to strong winds for tomorrow ahead of an intense storm system digging across the Great Basin. No updates were necessary this morning to the forecast.

&&

.PREVIOUS DISCUSSION...

Overall weather pattern will remain transitory with several similar systems affecting the Desert Southwest through next week. Latest streamline analysis shows a broad ridge building in across the California coast in the wake of the departing upper low across New Mexico. Thickness rises will translate into a warming trend through Thursday, with above normal temperatures expected.

A Pacific low pressure system dropping into the Great Basin will strengthen, ultimately closing off across Utah Thursday evening. Windy conditions will develop ahead of this low during the afternoon and evening with the latest NAEFS percentiles indicating speeds widespread above the 90th percentile and even approaching the 99th percentile in some spots. A significant cooldown is expected Friday as the low drifts towards the Four Corners with high temperatures struggling to reach the lower 70s in the lower deserts.

Not unlike the last upper low, the next one will also likely feature a vort max slowing the progression of the low, which will generate

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

ascent across eastern Arizona Saturday. Latest models including the CAMs suggest some potential for scattered shower activity during the afternoon mainly across eastern Arizona, though Lifted Indices generally remain unimpressive south of the Mogollon Rim.

Temperatures will rebound quickly Sunday as another positively-oriented Pacific ridge builds eastward. Earlier runs of the GFS and ECMWF were quite divergent for early next week, however the most recent runs have come into much better agreement. Latest forecast generally reflects a blend of the multi-model ensemble, which suggests yet another weaker low pressure system will pass by to our north Monday. Subtle cooling behind this trough Tuesday will then again be supplanted by another ridge and subsequent warming Wednesday.

&&

.AVIATION...

South-Central Arizona including KPHX, KIWA, and KSDL:

We are currently on the backside of an exiting upper level low pressure system which will give our diurnal winds a more northerly component today. A few high clouds at 20-25 kft may pass overhead late this afternoon but will not be of any concern. Northwesterly winds look like they will pickup earlier than usual today and will slowly back to westerly by the evening hours.

Southeast California/Southwest Arizona including KIPL and KBLH:

North to northwesterly flow will continue as an upper level low exits the area. Gusts up to 20 kts may be observed at KBLH this morning and early afternoon before diminishing. A few high clouds today otherwise the north to northwesterly flow will switch slightly to westerly this evening.

Aviation discussion not updated for amended TAFs.

&&

.FIRE WEATHER...

Friday through Tuesday: The weather pattern will remain relatively active across the Desert Southwest through early next week, though in general precipitation is not expected. Only exception will be in the higher terrain well north and east of Phoenix. On Friday, below normal temperatures are expected as a low pressure system moves through which may bring locally breezy winds. High temperatures rebound on Saturday to near normal although breezy winds are expected once again in SE California and far western Arizona as the low pressure system exits our area. Thereafter, high pressure will follow for Sunday and Monday, resulting in a warming trend and a return to above normal temperatures with relatively light winds. Another passing dry low pressure system may affect our area on Monday which should bring another round of breezy winds.

&&

.SPOTTER INFORMATION STATEMENT...

Spotters should follow standard reporting procedures this week.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...None.

CA...Wind Advisory from 2 PM Thursday to 5 AM PDT Friday for CAZ030.

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DISCUSSION...Rogers

PREVIOUS DISCUSSION...Hirsch

AVIATION...Wilson

FIRE WEATHER...Wilson/Hirsch

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FXUS66 KSGX 291652  
AFDSGX

Area Forecast Discussion  
National Weather Service San Diego CA  
950 AM PDT Wed Mar 29 2017

...Very strong winds Thursday afternoon through evening in the mountains and deserts...

.SYNOPSIS...

Sunny and warm today with high pressure aloft and weak offshore flow. On Thursday a strong low pressure trough moving across the Great Basin will bring strong westerly winds to the mountains and deserts. Cooler Friday as the winds shift northeast behind the trough. Mostly sunny and warm over the weekend under weak high pressure, but low pressure will bring cooler weather early next week.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

Temperatures rose quickly after sunrise today, and were 4-8 degrees higher than yesterday morning in most areas. Clear skies and weak offshore flow will propel temperatures into the 80s west of the mountains except near the coast.

The ridge axis aloft today will drift southeast tonight and our offshore flow will transition to a progressively stronger onshore flow pattern through Thursday afternoon as a deep trough over the Pacific Northwest tracks across the Great Basin. Strong winds rounding the base of the trough and an elevated inversion just above the ridgetops will support mountain wave development Thursday afternoon. Model cross-sections show waves surfacing down the lee slopes into the Coachella Valley and San Diego deserts Thursday afternoon and evening. Surface winds of 20-30 mph are likely with peak gusts of 50-60 mph on the slopes and some parts of the desert floor. Wind damage is possible. Blowing dust and sand will restrict visibilities. Rotors are likely in the vicinity of Palm Springs airport. A High Wind Watch in effect for most of the mountain and desert areas.

The wind will quickly switch to the north late Thursday night behind the trough, and gusty offshore north-northeast winds will follow through Friday morning.

\*From Previous Discussion\*

High pressure will gradually build in for the weekend with moderating temperatures and lighter winds. Another weak trough

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

slated for Monday and Tuesday next week will bring another cooldown and another possible strong wind event. It is spring after all!

&&

.AVIATION...

291515Z...Coast and Valleys...Locally gusty N-NE winds will create pockets of LLWS through and below the Cajon Pass through 18Z. Clear skies and light afternoon sea breezes will prevail this afternoon. Predominantly FEW AOA 20,000 ft msl tonight, though there some potential for patchy fog or low stratus with bases AOB 1,000 ft msl along the San Diego County coast between 10 and 15Z Thursday.

Mountains and Deserts...FEW AOA 20,000 ft msl and light winds will prevail through 15Z Thursday. Westerly winds and mountain wave activity will increase after 15Z, peaking around 00Z Friday. This will create strong up/downdrafts and LLWS over the deserts and along the desert slopes, especially between 21Z Thursday and 04Z Friday. Impacts from LLWS and gusty winds are possible for KPSP and KTRM.

&&

.MARINE...

No hazardous marine weather is expected through Thursday morning. The passage of a cold front will bring NW winds 15-25 kt and increasing seas Thursday afternoon into Friday. Strongest winds will likely be found 10 miles offshore and beyond Thursday Evening. Highest combined seas are anticipated overnight Thursday into Friday, with a 3-6 ft seas inside of 30 miles building to 7-10 ft near and south of San Clemente Island. Winds and swell should decrease over the weekend, before increasing again early next week.

&&

.SKYWARN...

Skywarn activation is not requested. However weather spotters are encouraged to report significant weather conditions.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...High Wind Watch from Thursday afternoon through late Thursday night for Apple and Lucerne Valleys-Coachella Valley-Riverside County Mountains-San Bernardino County Mountains-San Diego County Deserts-San Diego County Mountains-San Geronio Pass Near Banning.

PZ...None.

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PUBLIC...Moede

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019  
WWUS76 KSGX 292037  
NPWSGX

URGENT - WEATHER MESSAGE  
National Weather Service San Diego CA  
137 PM PDT Wed Mar 29 2017

...Strong Westerly Winds in the Mountains and Deserts Thursday  
Afternoon and Evening...

.A deep low pressure trough over the Pacific Northwest today will  
move rapidly southeast toward the Great Basin Thursday. This  
trough will bring strong westerly winds over the mountains and  
deserts from Thursday afternoon through Thursday night.

CAZ055-056-058-060>062-065-300500-  
/O.CON.KSGX.HW.A.0005.170330T1900Z-170331T1100Z/  
San Bernardino County Mountains-Riverside County Mountains-  
San Diego County Mountains-Apple and Lucerne Valleys-  
Coachella Valley-San Diego County Deserts-  
San Geronio Pass Near Banning-  
Including the cities of Lake Arrowhead, Big Bear City,  
Big Bear Lake, Wrightwood, Julian, Pine Valley, Victorville,  
Hesperia, Apple Valley, Indio, Palm Springs, Cathedral City,  
Palm Desert, Palm Desert Country, La Quinta, Coachella,  
Borrego Springs, and Desert Hot Springs  
137 PM PDT Wed Mar 29 2017

...HIGH WIND WATCH REMAINS IN EFFECT FROM THURSDAY AFTERNOON  
THROUGH LATE THURSDAY NIGHT...

- \* WINDS...Westerly 20 to 40 MPH with gusts up to 65 MPH near the  
desert slopes and foothills.
- \* TIMING...Winds increasing Thursday morning and becoming strong  
and gusty in the afternoon. Strongest winds Thursday evening.  
Winds will switch to north Thursday night.
- \* LOCATION...The higher mountains and deserts with strongest winds  
on the desert slopes and near the desert foothills in the  
Coachella Valley and the San Diego County Deserts.
- \* VISIBILITY...Blowing dust and sand will reduce visibility at  
times to as low as 1 mile.
- \* IMPACTS...Hazardous travel conditions at times due to low  
visibility in blowing sand and dust, and sudden, strong cross-  
winds. Difficult travel for high-profile vehicles. Minor  
structural and tree damage possible.
- \* OUTLOOK...Gusty northerly winds through Friday morning in the  
northern Coachella Valley, the Cajon Pass, parts of the Inland



## March 30, 2017 Exceptional Event, Imperial County

## Appendix A

Empire and the Santa Ana Mountains.

### PRECAUTIONARY/PREPAREDNESS ACTIONS...

A High Wind Watch means there is the potential for a hazardous high wind event. Sustained winds of at least 40 mph...or gusts of 58 mph or stronger may occur. Continue to monitor the latest forecasts.

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Moede

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412  
FXUS66 KSGX 292130  
AFDSGX

Area Forecast Discussion  
National Weather Service San Diego CA  
229 PM PDT Wed Mar 29 2017

.SYNOPSIS...

High pressure aloft will drift east tonight. On Thursday a deep trough moving across the Great Basin will bring strong and gusty west winds to the mountains and deserts. Cooler Friday behind the trough with winds shift to the northeast. High pressure rebuilding over the region Saturday will bring sunny and warm this weekend. Cooler early next week as another trough moves in from the northwest.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...  
SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO  
COUNTIES...

High pressure aloft brought sunny, warm weather Wednesday. Highs were in the 80s in most areas west of the mountains. Mountain highs in the 60s and 70s, and the lower deserts were in the lower 90s. Records are a little out of reach today.

The ridge axis shifts east tonight and we will transition to a progressively stronger onshore flow pattern Thursday. A deep upper trough will move into NorCal tonight and then across the Great Basin/California interior on Thursday. The core of the strongest winds in SoCal will be Thursday afternoon through Thursday evening, a relatively short duration onshore wind event. Pressure gradients ramp up Thursday afternoon and peak Thursday evening with a 994 mb surface low over southern Utah. Strong gradient winds over the high deserts from 20-30 mph with gust to 50 mph+. Mountain waves are a near certainty with an inversion near 700 mb. West winds will surface down the eastern slopes and into the lower deserts, but the magnitude of the wind is still in question. The WRF is strongest with the winds, as usual, and support a low end Wind Warning. But the Cansac and NAM3 are weaker and support a Wind Advisory. Either way, there will be a 6-12 hour period of gusty west winds between Noon-10 pm Thursday. Surface winds of 20-30 mph are likely with peak gusts of 50-60 mph on the slopes and some parts of the desert floor. Rotors are likely in the Coachella Valley. A High Wind Watch remain in effect for most of the mountain and desert areas Thursday afternoon in Thursday night.

The winds shift north and weaken Thursday night as the trough moves over northern AZ, setting up a brief period of offshore flow through midday Friday. The north-south alignment favors gusty winds in the Cajon Pass, parts of the IE and the Santa Ana Mountains. The

**March 30, 2017 Exceptional Event, Imperial County**  
northern part of the Coachella Valley will also see gust north winds. The remainder of Riverside County and most of San Diego County will not be experience strong winds.

An sizable coastal eddy will spin up over the coastal waters tonight which could generate low clouds or fog in the coastal zones tomorrow morning.

Weekend outlook: High pressure aloft fills in behind the trough with fair warm weather Saturday and Sunday. Another trough will move across the Great Basin Monday and Tuesday for minor cooling. This is a weaker inside slider that the upcoming Thursday event, and the winds won't be as strong in the mtns and deserts.

&&

.AVIATION...

292000Z...Coast and Valleys...SKC and light afternoon sea breezes will prevail this afternoon. Predominantly FEW AOA 20,000 ft msl tonight, though there is some potential for patchy fog or low stratus with bases AOB 1,000 ft msl along the San Diego County coast between 10 and 15Z Thursday. Some clearing is possible between 15 and 20Z Thursday, before SCT-BKN bases AOA 2000 ft msl return to coastal areas after 20Z.

Mountains and Deserts...FEW AOA 20,000 ft msl and light winds will prevail through 15Z Thursday. Westerly winds and mountain wave activity will increase after 15Z, peaking around 00Z Friday. This will create strong up/downdrafts and LLWS over the deserts and along the desert slopes, especially between 21Z Thursday and 04Z Friday. Impacts from LLWS and gusty winds are possible for KPSP and KTRM.

&&

.MARINE...

No hazardous marine weather is expected through Thursday morning. The passage of a cold front will bring NW winds 15-25 kt and increasing seas Thursday afternoon and Friday. Strongest winds will likely be found 10 miles offshore and beyond Thursday evening. Highest combined seas are anticipated overnight Thursday into Friday, with 3-6 ft seas inside of 30 miles building to 7-10 ft near and south of San Clemente Island. Winds and swell should decrease over the weekend, before increasing again early next week.

&&

.SKYWARN...

Skywarn activation is not requested. However weather spotters are encouraged to report significant weather conditions.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...High Wind Watch from Thursday afternoon through late Thursday

**March 30, 2017 Exceptional Event, Imperial County**  
 night for Apple and Lucerne Valleys-Coachella Valley-  
 Riverside County Mountains-San Bernardino County Mountains-  
 San Diego County Deserts-San Diego County Mountains-San  
 Gorgonio Pass Near Banning.

PZ...None.

&&

\$\$

PUBLIC...Moede

AVIATION/MARINE...Albright

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760  
FXUS65 KPSR 292143  
AFDPSR

Area Forecast Discussion  
National Weather Service Phoenix AZ  
243 PM MST Wed Mar 29 2017

.SYNOPSIS...

High pressure building across the Desert Southwest will result in a warming trend through Thursday. A strong low pressure system will then produce windy conditions Thursday along with much cooler temperatures Friday. Scattered precipitation is possible across the higher terrain of eastern Arizona Saturday as the storm lingers. Warmer conditions will then return Sunday as high pressure again builds across the region.

&&

.DISCUSSION...

A very pleasant day weather-wise has taken shape, as temperatures are in the low-mid 80s F amidst mostly clear skies and generally light winds. However, a pattern change is underway across the western U.S. as a seasonably strong upper low deepens across the western Great Basin overnight into tomorrow. The primary effect from this system will be strengthening westerly winds beginning early Thursday, spreading into central Arizona by Thursday evening. In fact, NAEFS 850-mb wind speeds are forecast to reach or exceed the 99th percentile tomorrow afternoon and evening (30-40 kts) immediately ahead of an associated cold front sweeping through the area. As a result, have expanded the wind advisory to include most of eastern Riverside County beginning tomorrow afternoon into the overnight hours, where confidence is highest for the strongest advisory-level wind speeds to occur.

Otherwise, the other primary change will be much cooler temperatures occurring Friday in the wake of the cold front. Highs in the low 70s will be 5-10 degrees below normal as the upper trough cuts off and decelerates near the Four Corners. Precipitation chances will be quite limited given meager moisture associated with this system, and the strongest forcing for ascent remaining north and east of the Phoenix area. Only slight chances for precipitation will be maintained across southern Gila County for Saturday.

The upper low will gradually weaken and shift eastward this weekend, and will allow for another short-lived warming trend to take hold into early next week as transitory midlevel ridging builds across the Southwest. Another storm system will develop across the western CONUS Monday and Tuesday, and send a weak cold front across the region. However, moisture will remain limited, with the primary effects being increased wind speeds and a modest cooling trend by Tuesday.

&&

.AVIATION...

South-Central Arizona including KPHX, KIWA, and KSDL:

Winds will start to return to normal diurnal patterns but hold onto a northerly component. Northeasterly downslope winds will begin to shift to the northwest through 20Z with speeds aob 10 kts. Downslope easterly winds will then initiate again near 04 to 06Z, with speeds aob 10 kts. Skies will remain mostly clear with a few high clouds passing overhead near 25 kft during the latter part of the TAF period.

Southeast California/Southwest Arizona including KIPL and KBLH:

At KBLH, breezy north-northwesterly winds with speeds between 15 to 25 kts and gusts up to 25 kts will persists through early this afternoon (around 21Z). Thereafter, winds will remain out of the north-northwest with speeds near or below 10 kts. At KIPL, winds will remain out of the northwest near or below 10 kts. Skies will be mostly clear at both TAF sites with a few high clouds passing overhead near 25 kft.

Aviation discussion not updated for amended TAFs.

&&

.FIRE WEATHER...

Friday through Tuesday: The weather pattern will remain relatively active across the Desert Southwest through early next week, though in general precipitation is not expected. Only exception will be in the higher terrain well north and east of Phoenix. On Friday, below normal temperatures are expected as a low pressure system moves through which may bring locally breezy winds. High temperatures rebound on Saturday to near normal although breezy winds are expected once again in SE California and far western Arizona as the low pressure system exits our area. Thereafter, high pressure will follow for Sunday and Monday, resulting in a warming trend and a return to above normal temperatures with relatively light winds. Another passing dry low pressure system may affect our area on Monday which should bring another round of breezy winds.

&&

.SPOTTER INFORMATION STATEMENT...

Spotters should follow standard reporting procedures this week.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...None.

CA...Wind Advisory from 2 PM Thursday to 9 AM PDT Friday for CAZ030-032.

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WWUS75 KPSR 300039  
NPWPSR

URGENT - WEATHER MESSAGE  
National Weather Service Phoenix AZ  
539 PM MST Wed Mar 29 2017

CAZ033-301215-  
/O.EXB.KPSR.WI.Y.0007.170330T2100Z-170331T0600Z/  
Imperial County-  
Including the cities of Brawley, Calexico, El Centro, Glamis,  
Imperial, and The Salton Sea  
539 PM PDT Wed Mar 29 2017

...WIND ADVISORY IN EFFECT FROM 2 PM TO 11 PM PDT THURSDAY...

The National Weather Service in Phoenix has issued a Wind  
Advisory, which is in effect from 2 PM to 11 PM PDT Thursday.

- \* AFFECTED AREA...Imperial County including Interstate 8.
- \* TIMING...Thursday afternoon through late evening.
- \* WINDS...West winds of 20 to 30 mph with gusts up to 45 mph.
- \* IMPACTS...Strong winds will create difficult driving  
conditions especially for high profile vehicles. Locally  
reduced visibilities due to blowing dust possible.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A Wind Advisory means that sustained wind speeds of between  
30 and 40 mph are expected, or wind gusts of between 40 and  
58 mph. Winds this strong can make driving difficult, especially  
for high profile vehicles. In addition, strong winds over desert  
areas could result in briefly lowered visibilities to well under  
a mile at times in blowing dust or blowing sand. Use extra  
caution.

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CAZ030-032-301215-  
/O.EXT.KPSR.WI.Y.0007.170330T2100Z-170331T1100Z/  
Joshua Tree National Park-Riverside County/Eastern Deserts-  
Including the cities of Cottonwood Visitor Center, Keys View,  
Lost Horse, Chiriaco Summit, Desert Center, and Eagle Mountain  
539 PM PDT Wed Mar 29 2017

...WIND ADVISORY NOW IN EFFECT FROM 2 PM THURSDAY TO 4 AM PDT  
FRIDAY...

### March 30, 2017 Exceptional Event, Imperial County

### Appendix A

- \* AFFECTED AREA...Eastern Riverside County including Interstate 10 from Blythe through the Coachella Valley and Joshua Tree National Park
- \* TIMING...Thursday afternoon through early Friday morning
- \* WINDS...West winds of 25 to 35 mph with gusts up to 45 mph
- \* IMPACTS...Strong winds will create difficult driving conditions especially for high profile vehicles. Locally reduced visibilities due to blowing dust possible.

#### PRECAUTIONARY/PREPAREDNESS ACTIONS...

A Wind Advisory means that sustained wind speeds of between 30 and 40 mph are expected, or wind gusts of between 40 and 58 mph. Winds this strong can make driving difficult, especially for high profile vehicles. In addition, strong winds over desert areas could result in briefly lowered visibilities to well under a mile at times in blowing dust or blowing sand. Use extra caution.

&&

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WWUS76 KSGX 300113  
NPWSGX

URGENT - WEATHER MESSAGE  
National Weather Service San Diego CA  
613 PM PDT Wed Mar 29 2017

...Strong and Locally Damaging West Winds in the Mountains and  
Deserts Thursday Afternoon and Evening...

.A deep low pressure trough over the Pacific Northwest will move  
rapidly southeast toward the Great Basin Thursday. This trough  
will bring strong and locally damaging west winds over the  
mountains and deserts Thursday afternoon and evening.

CAZ060-301200-  
/O.UPG.KSGX.HW.A.0005.170330T1900Z-170331T1100Z/  
/O.NEW.KSGX.HW.W.0006.170330T1900Z-170331T0600Z/  
Apple and Lucerne Valleys-  
Including the cities of Victorville, Hesperia, and Apple Valley  
613 PM PDT Wed Mar 29 2017

...HIGH WIND WARNING IN EFFECT FROM NOON TO 11 PM PDT THURSDAY...

The National Weather Service in San Diego has issued a High Wind  
Warning, which is in effect from noon to 11 PM PDT Thursday. The  
High Wind Watch is no longer in effect.

- \* WINDS...Sustained west winds 30 to 40 mph with gusts up to 60  
mph.
- \* TIMING...Winds will increase Thursday morning, becoming strong  
and locally damaging Thursday afternoon and evening. The  
strongest winds are expected between 2 and 6 PM Thursday.
- \* LOCATION...the high desert including Victorville, Hesperia, and  
Apple Valley and Interstate 15.
- \* VISIBILITY...Severe restrictions of a quarter of a mile or less  
in blowing dust and sand possible.
- \* IMPACTS...Hazardous travel conditions due to low visibility in  
blowing sand and dust, and sudden, strong cross-winds. Difficult  
travel for high-profile vehicles, especially Big Rigs which are  
prone to toppling. Minor structural and tree damage possible.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A High Wind Warning means a hazardous high wind event is expected  
or occurring. Sustained wind speeds of at least 40 mph or gusts  
of 58 mph or more can lead to property damage.

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

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CAZ055-056-058-061-062-065-301200-  
 /O.UPG.KSGX.HW.A.0005.170330T1900Z-170331T1100Z/  
 /O.NEW.KSGX.HW.W.0006.170330T1900Z-170331T0600Z/  
 San Bernardino County Mountains-Riverside County Mountains-

San Diego County Mountains-Coachella Valley-  
 San Diego County Deserts-San Gorgonio Pass Near Banning-  
 Including the cities of Lake Arrowhead, Big Bear City,  
 Big Bear Lake, Wrightwood, Julian, Pine Valley, Indio,

Palm Springs, Cathedral City, Palm Desert, Palm Desert Country,  
 La Quinta, Coachella, Borrego Springs, and Desert Hot Springs  
 613 PM PDT Wed Mar 29 2017

...HIGH WIND WARNING IN EFFECT FROM NOON TO 11 PM PDT THURSDAY...

The National Weather Service in San Diego has issued a High Wind Warning, which is in effect from noon to 11 PM PDT Thursday. The High Wind Watch is no longer in effect.

\* WINDS...Sustained west winds of 20 to 40 mph. Gusts to 70 mph or higher on mountain tops and desert mountain slopes. Gusts of 50 to 60 mph in the Coachella Valley and the San Diego County desert.

\* TIMING...Winds will increase Thursday morning, becoming strong and locally damaging Thursday afternoon and evening. The strongest winds are expected between 2 and 6 PM Thursday.

\* LOCATION...Mountain tops to the desert floor.

\* VISIBILITY...Severe restrictions of a quarter of a mile or less in blowing dust and sand possible in the deserts.

\* IMPACTS...Hazardous travel conditions at times due to low visibility in blowing sand and dust, and sudden, strong cross-winds. Difficult travel for high-profile vehicles, especially Big Rigs which are prone to toppling. Minor structural and tree damage possible.

\* OUTLOOK...Winds will turn northerly Thursday night and be quite gusty from the northern Coachella Valley and through the Cajon Pass, but not as strong.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A High Wind Warning means a hazardous high wind event is expected or occurring. Sustained wind speeds of at least 40 mph or gusts of 58 mph or more can lead to property damage.

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FXUS66 KSGX 300128  
AFDSGX

Area Forecast Discussion  
National Weather Service San Diego CA  
628 PM PDT Wed Mar 29 2017

...Strong to Locally Damaging Winds Mountains-Deserts Thursday  
Afternoon and Evening...

.SYNOPSIS...

High pressure aloft will drift east tonight. On Thursday a deep trough moving across the Great Basin will bring strong and locally damaging west winds to the mountains and deserts. Cooler Friday behind the trough with winds shift to the northeast. High pressure rebuilding over the region Saturday will bring sunny and warm this weekend. Cooler early next week as another trough moves in from the northwest.

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.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...  
SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO  
COUNTIES...

...Update - High Wind Warning Issued for Mountains/Deserts...

Upgraded to a High Wind Warning for the mountains to the desert floor. The pressure gradient will really tighten up and result in strong to locally damaging winds across the mountains to the deserts Thursday afternoon and evening.

The strongest winds are expected to occur across the high desert and the mountain tops/desert slopes. High sustained winds are possible across the Apple and Lucerne Valleys and points north. GFS MOS has sustained wind to 34 knots at Victorville Thu afternoon. Hazardous travel from strong cross-winds and localized severe visibility restrictions is expected along Interstate 15 in the high desert.

Localized damaging wind is possible across the Coachella Valley and the San Diego County deserts, so included these areas in the High Wind Warning. Cross sections show mountain waves developing with surfacing and rotoring. Localized gusts to 60 mph will occur as mountain waves surface.

Timing of strongest winds is forecast to be 2-6 PM Thursday.

/Gregoria

...Previous Discussion (Issued at 229 PM PDT Wed Mar 29 2017)...

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

High pressure aloft brought sunny, warm weather Wednesday. Highs were in the 80s in most areas west of the mountains. Mountain highs in the 60s and 70s, and the lower deserts were in the lower 90s. Records are a little out of reach today.

The ridge axis shifts east tonight and we will transition to a progressively stronger onshore flow pattern Thursday. A deep upper trough will move into NorCal tonight and then across the Great Basin/California interior on Thursday. The core of the strongest winds in SoCal will be Thursday afternoon through Thursday evening, a relatively short duration onshore wind event. Pressure gradients ramp up Thursday afternoon and peak Thursday evening with a 994 mb surface low over southern Utah. Strong gradient winds over the high deserts from 20-30 mph with gust to 50 mph+. Mountain waves are a near certainty with an inversion near 700 mb. West winds will surface down the eastern slopes and into the lower deserts, but the magnitude of the wind is still in question. The WRF is strongest with the winds, as usual, and support a low end Wind Warning. But the Cansac and NAM3 are weaker and support a Wind Advisory. Either way, there will be a 6-12 hour period of gusty west winds between Noon-10 pm Thursday. Surface winds of 20-30 mph are likely with peak gusts of 50-60 mph on the slopes and some parts of the desert floor. Rotors are likely in the Coachella Valley. A High Wind Watch remain in effect for most of the mountain and desert areas Thursday afternoon in Thursday night.

The winds shift north and weaken Thursday night as the trough moves over northern AZ, setting up a brief period of offshore flow through midday Friday. The north-south alignment favors gusty winds in the Cajon Pass, parts of the IE and the Santa Ana Mountains. The northern part of the Coachella Valley will also see gust north winds. The remainder of Riverside County and most of San Diego County will not be experience strong winds.

An sizable coastal eddy will spin up over the coastal waters tonight which could generate low clouds or fog in the coastal zones tomorrow morning.

Weekend outlook: High pressure aloft fills in behind the trough with fair warm weather Saturday and Sunday. Another trough will move across the Great Basin Monday and Tuesday for minor cooling. This is a weaker inside slider that the upcoming Thursday event, and the winds won't be as strong in the mtns and deserts.

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.AVIATION...

29200Z...Coast and Valleys...SKC and light afternoon sea breezes will prevail this afternoon. Predominantly FEW AOA 20,000 ft msl tonight, though there is some potential for patchy fog or low stratus with bases AOB 1,000 ft msl along the San Diego County coast between 10 and 15Z Thursday. Some clearing is possible between 15 and 20Z Thursday, before SCT-BKN bases AOA 2000 ft msl return to coastal areas after 20Z.

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

Mountains and Deserts...FEW AOA 20,000 ft msl and light winds will prevail through 15Z Thursday. Westerly winds and mountain wave activity will increase after 15Z, peaking around 00Z Friday. This will create strong up/downdrafts and LLWS over the deserts and along the desert slopes, especially between 21Z Thursday and 04Z Friday. Impacts from LLWS and gusty winds are possible for KPSP and KTRM.

&&

.MARINE...

No hazardous marine weather is expected through Thursday morning. The passage of a cold front will bring NW winds 15-25 kt and increasing seas Thursday afternoon and Friday. Strongest winds will likely be found 10 miles offshore and beyond Thursday evening. Highest combined seas are anticipated overnight Thursday into Friday, with 3-6 ft seas inside of 30 miles building to 7-10 ft near and south of San Clemente Island. Winds and swell should decrease over the weekend, before increasing again early next week.

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.SKYWARN...

Skywarn activation is not requested. However weather spotters are encouraged to report significant weather conditions.

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.SGX WATCHES/WARNINGS/ADVISORIES...

CA...High Wind Warning from noon to 11 PM PDT Thursday for Apple and Lucerne Valleys-Coachella Valley-Riverside County Mountains-San Bernardino County Mountains-San Diego County Deserts-San Diego County Mountains-San Gorgonio Pass Near Banning.

PZ...None.

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PUBLIC...Gregoria (Update)/Moede (Prev Discussion)  
AVIATION/MARINE...Albright

**IOWA STATE  
UNIVERSITY**

College of Ag

Department of Agronomy

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WWUS75 KPSR 300859  
NPWPSR

URGENT - WEATHER MESSAGE  
National Weather Service Phoenix AZ  
159 AM MST Thu Mar 30 2017

AZZ020-021-025-026-CAZ031-302200-  
/O.EXA.KPSR.WI.Y.0007.170330T2100Z-170331T0600Z/  
Lower Colorado River Valley AZ-West Central Deserts-  
Yuma/Martinez Lake and Vicinity-Southwest Deserts-  
Lower Colorado River Valley CA-  
Including the cities of Ehrenberg, Parker, Bouse, Quartzsite,  
Salome, Fortuna Foothills, San Luis, Somerton, Yuma, Dateland,  
Tacna, Wellton, and Blythe  
159 AM MST Thu Mar 30 2017 /159 AM PDT Thu Mar 30 2017/

...WIND ADVISORY IN EFFECT FROM 2 PM MST /2 PM PDT/ THIS  
AFTERNOON TO 11 PM MST /11 PM PDT/ THIS EVENING...

The National Weather Service in Phoenix has issued a Wind  
Advisory, which is in effect from 2 PM MST /2 PM PDT/ this  
afternoon to 11 PM MST /11 PM PDT/ this evening.

- \* AFFECTED AREA...La Paz and Yuma Counties including Interstates  
10 and 8.
- \* TIMING...Thursday afternoon through late evening.
- \* WINDS...West winds of 25 to 35 mph with gusts up to 45 mph. The  
strongest winds will be focused over La Paz and northern Yuma  
counties.
- \* IMPACTS...Strong winds will create difficult driving  
conditions especially for high profile vehicles. Locally  
reduced visibilities due to blowing dust possible.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A Wind Advisory means that sustained wind speeds of between  
30 and 40 mph are expected, or wind gusts of between 40 and  
58 mph. Winds this strong can make driving difficult, especially  
for high profile vehicles. In addition, strong winds over desert  
areas could result in briefly lowered visibilities to well under  
a mile at times in blowing dust or blowing sand. Use extra  
caution.

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CAZ030-032-302200-

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

/O.EXT.KPSR.WI.Y.0007.170330T2100Z-170331T0600Z/

Joshua Tree National Park-Riverside County/Eastern Deserts-  
Including the cities of Cottonwood Visitor Center, Keys View,  
Lost Horse, Chiriaco Summit, Desert Center, and Eagle Mountain  
159 AM PDT Thu Mar 30 2017

...WIND ADVISORY NOW IN EFFECT FROM 2 PM THIS AFTERNOON TO 11 PM  
PDT THIS EVENING...

- \* AFFECTED AREA...Eastern Riverside County including Interstate 10  
from Blythe through the Coachella Valley and Joshua Tree  
National Park.
- \* TIMING...Thursday afternoon through late evening.
- \* WINDS...West winds of 25 to 35 mph with gusts up to 45 mph. The  
highest elevations may see winds gusting up to 55 mph.
- \* IMPACTS...Strong winds will create difficult driving  
conditions especially for high profile vehicles. Locally  
reduced visibilities due to blowing dust possible.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A Wind Advisory means that sustained wind speeds of between  
30 and 40 mph are expected, or wind gusts of between 40 and  
58 mph. Winds this strong can make driving difficult, especially  
for high profile vehicles. In addition, strong winds over desert  
areas could result in briefly lowered visibilities to well under  
a mile at times in blowing dust or blowing sand. Use extra  
caution.

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CAZ033-302200-

/O.CON.KPSR.WI.Y.0007.170330T2100Z-170331T0600Z/

Imperial County-

Including the cities of Brawley, Calexico, El Centro, Glamis,  
Imperial, and The Salton Sea

159 AM PDT Thu Mar 30 2017

...WIND ADVISORY REMAINS IN EFFECT FROM 2 PM THIS AFTERNOON TO  
11 PM PDT THIS EVENING...

- \* AFFECTED AREA...Imperial County including Interstate 8.
- \* TIMING...Thursday afternoon through late evening.
- \* WINDS...West winds of 25 to 35 mph with gusts up to 45 mph.
- \* IMPACTS...Strong winds will create difficult driving  
conditions especially for high profile vehicles. Locally

## March 30, 2017 Exceptional Event, Imperial County

## Appendix A

reduced visibilities due to blowing dust possible.

### PRECAUTIONARY/PREPAREDNESS ACTIONS...

A Wind Advisory means that sustained wind speeds of between 30 and 40 mph are expected, or wind gusts of between 40 and 58 mph. Winds this strong can make driving difficult, especially for high profile vehicles. In addition, strong winds over desert areas could result in briefly lowered visibilities to well under a mile at times in blowing dust or blowing sand. Use extra caution.

&&

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FXUS66 KSGX 301022  
AFDSGX

Area Forecast Discussion  
National Weather Service San Diego CA  
322 AM PDT Thu Mar 30 2017

...Severe potentially damaging winds later today and this evening over the mountains and deserts...

.SYNOPSIS...

For today a deep low pressure trough moving across the Great Basin will bring strong and potentially damaging west winds to the mountains and deserts. Cooler Friday behind the trough with winds shifting to the northeast. High pressure rebuilding over the region Saturday will bring sunny and warm weather this weekend. Cooler early next week as another trough moves in from the northwest.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

Low clouds and patchy fog have formed early this morning just off the Rosarito coast. This will likely spread north and affect the SD and Orange County coasts through mid morning.

A shortwave is quickly dropping SSE over the NorCal coast early this morning and is rapidly strengthening per water vapor satellite. This trough will deepen into a closed low later today over the Great Basin and will be starved for moisture but will introduce a very strong pressure gradient over Socal. Upper jet support with 120 kt+ through about 06z this evening will support very strong W-NW winds over the mountains and into the Mojave and Coachella Valley and SD Deserts along with the possibility of significant blowing sand and dust in the deserts. A high wind warning remains in effect for this afternoon and evening.

As the low shifts to the east winds will shift to the north late tonight and into Friday morning. There may be another period of strong winds through Friday morning, although not nearly as severe as what we are expecting with the WNW. Northerly winds will continue through Friday night although not nearly as strong but a wind advisory may be necessary to cover this period after the threat for high winds has ended.

Ridging and moderating temperatures and lighter winds will build in for Saturday and Sunday. An inside slider trough will bring another cooldown Monday and Tuesday as well as another threat for strong winds. Another ridge will build in for Wednesday and

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

Thursday for another period of moderating temperatures.

Mid latitude moisture transport and Pacific Jet will bring the potential for widespread precipitation to Norcal by the end of next week although it is looking like this system will not make it down to Southern California. Will keep an eye on this though for late season precip potential.

&&

.AVIATION...

300930Z...Patchy fog along the coast not likely to impact coastal airports, and if so only briefly this morning. Bases would be around 500 feet msl with vis 3-5sm. Otherwise mostly clear skies today. Coastal low clouds to develop and spread rapidly inland this evening after 00Z, mostly in San Diego County. Bases will be rising 1000-2000 feet msl.

Winds in mountains and deserts will increase this afternoon and continue through tonight. Areas of winds 25-35 KT gusts 40-50 KT after 20Z near mountain crests, desert mountain slopes and some lower elevation desert locations. Some strong winds could occur at KPSP and KTRM, with peak winds likely to be 23-04Z this afternoon/eve, and KPSP could have a rotor at times with lighter easterly winds. LLWS and strong up/downdrafts will also occur and isolated vis reductions in blowing dust/sand in the deserts. Winds will diminish after 06Z.

&&

.MARINE...

Strong west and northwest winds will develop this afternoon and continue into early Friday, particularly in the outer coastal waters. A small craft advisory contains the details on winds and seas. In the outer waters winds will gust over 30 knots in spots and seas will build to over 10 feet. Winds and seas will diminish Friday morning. No hazardous marine weather is expected through Sunday, but strong winds could return Monday.

&&

.SKYWARN...

Skywarn activation is not requested. However weather spotters are encouraged to report significant weather conditions.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...High Wind Warning from noon today to 11 PM PDT this evening for Apple and Lucerne Valleys-Coachella Valley-Riverside County Mountains-San Bernardino County Mountains-San Diego County Deserts-San Diego County Mountains-San Gorgonio Pass Near

**March 30, 2017 Exceptional Event, Imperial County**  
Banning.

**Appendix A**

PZ...Small Craft Advisory from 1 PM this afternoon to 8 AM PDT Friday  
for Waters from San Mateo point to the Mexican Border  
Extending 30 to 60 nm out including San Clemente Island.

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PUBLIC...Brotherton  
AVIATION/MARINE...MM

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WWUS76 KSGX 301113  
NPWSGX

URGENT - WEATHER MESSAGE  
National Weather Service San Diego CA  
413 AM PDT Thu Mar 30 2017

...Severe westerly winds with damage possible this afternoon and evening in the Mountains and Deserts...

.A deep low pressure system over the Great Basin will generate very strong westerly winds this afternoon and evening over the mountains and deserts. Wind gusts over 60 mph will be likely with the potential for damage to trees and utility systems. Winds will diminish and turn northerly late tonight but remain gusty through Friday.

CAZ060-302100-  
/O.CON.KSGX.HW.W.0006.170330T1900Z-170331T0600Z/  
Apple and Lucerne Valleys-  
Including the cities of Victorville, Hesperia, and Apple Valley  
413 AM PDT Thu Mar 30 2017

...HIGH WIND WARNING REMAINS IN EFFECT FROM NOON TODAY TO 11 PM  
PDT THIS EVENING...

- \* WINDS...Sustained west winds 30 to 40 mph with gusts to 60 mph.
- \* TIMING...Winds will increase this morning, becoming strong and with the potential for damage this afternoon and evening. The strongest winds are expected between 2 and 7 PM.
- \* LOCATION...the high desert including Victorville, Hesperia, and Apple Valley and Interstate 15.
- \* VISIBILITY...Severe restrictions of a quarter of a mile or less in blowing dust and sand possible.
- \* IMPACTS...Hazardous travel conditions due to low visibility in blowing sand and dust, and sudden, strong cross-winds. Difficult travel for high-profile vehicles, especially Big Rigs which are prone to toppling. Minor structural and tree damage possible.
- \* OUTLOOK...Winds will turn northerly late tonight but will not be quite as strong. Gusty northerly winds will continue Friday.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A High Wind Warning means a hazardous high wind event is expected or occurring. Sustained wind speeds of at least 40 mph or gusts of 58 mph or more can lead to property damage.

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

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CAZ055-056-058-061-062-065-302100-

/O.CON.KSGX.HW.W.0006.170330T1900Z-170331T0600Z/

San Bernardino County Mountains-Riverside County Mountains-

San Diego County Mountains-Coachella Valley-

San Diego County Deserts-San Gorgonio Pass Near Banning-

Including the cities of Lake Arrowhead, Big Bear City,

Big Bear Lake, Wrightwood, Julian, Pine Valley, Indio,

Palm Springs, Cathedral City, Palm Desert, Palm Desert Country,

La Quinta, Coachella, Borrego Springs, and Desert Hot Springs

413 AM PDT Thu Mar 30 2017

...HIGH WIND WARNING REMAINS IN EFFECT FROM NOON TODAY TO 11 PM  
PDT THIS EVENING...

\* WINDS...Sustained west winds of 20 to 40 mph. Gusts up to 80 mph  
along mountain tops and the desert mountain slopes. Gusts up to  
60 mph in the Coachella Valley and San Diego County desert.

\* TIMING...Winds will increase this morning, becoming strong and  
with the potential for damage this afternoon and evening. The  
strongest winds are expected between 3 and 8 PM.

\* LOCATION...From the mountain tops to the desert floor.

\* VISIBILITY...Severe restrictions of a quarter of a mile or  
less in blowing dust and sand possible in the deserts.

\* IMPACTS...Hazardous travel conditions at times due to low  
visibility in blowing sand and dust, and sudden, strong cross-  
winds. Difficult travel for high-profile vehicles, especially  
Big Rigs which are prone to toppling. Minor structural and  
tree damage possible.

\* OUTLOOK...Winds will turn northerly tonight and be quite gusty  
from the northern Coachella Valley and through the Cajon Pass,  
but not as strong. Gusty northerly winds will continue Friday.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A High Wind Warning means a hazardous high wind event is expected  
or occurring. Sustained wind speeds of at least 40 mph or gusts  
of 58 mph or more can lead to property damage.

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FXUS65 KPSR 301517  
AFDPSR

Area Forecast Discussion  
National Weather Service Phoenix AZ  
815 AM MST Thu Mar 30 2017

.SYNOPSIS...

A strong low pressure system will produce windy conditions today along with much cooler temperatures Friday. Isolated precipitation is possible across the higher terrain of eastern Arizona Saturday as the storm lingers. Warmer conditions will then return Sunday and into early next week as high pressure again builds across the region.

&&

.DISCUSSION...

A very powerful and dynamic Pacific weather system was approaching AZ this morning. This system moved ashore in far northern CA and OR overnight, and is forecast to track rapidly south southeastward into northern AZ by late tonight.

We mentioned powerful because it will continue to intensify as it tracks toward northern AZ today. However since most of the intensification and upward vertical motion will develop over land, and without any renewed Pacific moisture, it will be relatively moisture starved as it muscles its way into AZ. Additionally, as a rule of thumb, fast and cold southward moving weather systems always intensify due to rapid loss in planetary vorticity or rapid latitudinal change.

And, because of how cold and dense the airmass will become following the cold front from the north, powerful wind gusts are expected across portions of southeast CA and southwest AZ this evening, i.e. gusts to 50 mph possible.

Strongest 500 mb height falls of 200 meters occur between 5 pm and midnight along the Colorado River and parts of southwest AZ, which is a wind signature to us and very foreboding. 500 mb height falls are even stronger in northern AZ and represent the vertical motion part of this weather system, suggesting a chance of showers and thunderstorms generally from Flagstaff northward, especially between the Grand Canyon and Page AZ just before midnight.

In summary, the biggest weather threat for our forecast area, since this system is relatively dry for southeast CA and southern AZ is wind, lots of it and strong. A wind advisory is already posted for a large part of southeast CA and southwest AZ for late this afternoon through 11 pm mst tonight. This will perhaps be followed a little later by a blowing dust advisory for this evening due to

**March 30, 2017 Exceptional Event; Imperial County**

the blowing dust and sand potential, especially dusty areas emanating from the Mohave Desert since a high wind warning is posted for that area.

Lighter winds, although still breezy from the north and northwest will continue on Friday, along with a dramatic cool down in the aftermath of the cold front.

For now current forecasts look ok. No updates planned other than addressing a blowing dust advisory issuance a little later in the shift.

.PREVIOUS DISCUSSION...603 AM MST...

Latest water vapor imagery and streamline analysis show a well-defined trough along the northern CA coast. This system will move steadily into the Great Basin today while deepening rapidly. Main impact across the Desert Southwest will be an increase in wind along and ahead of an approaching cold front. Latest NAEFS anomalies show a widespread area of 850 mb winds above the 95th percentile and even approaching the 99th percentile in spots. Although the strongest winds are anticipated across southeastern California and southwestern Arizona, gusts may still reach as high as 30 mph late this afternoon in the Phoenix area. Latest model runs have also hinted at some potential for shower activity across north-central Arizona, though the latest suite of CAMs including the HRRR show little potential for activity reaching the Phoenix area.

The anomalous low pressure system will close off overnight before migrating towards the Four Corners Friday. A much colder air mass will then descend across the region and high temperatures have been lowered further with a high of only 71 degrees expected in the Phoenix area. If that verifies, it would be the coolest day since March 1st, when a high temperature of 70 degrees was recorded.

The low is expected to fill as it drifts eastward Saturday. Latest GFS and ECMWF have trended somewhat drier, suggesting only modest vorticity-forced ascent for shower activity across mainly eastern Arizona. PoPs have consequently been lowered but nevertheless remain around 20 percent across eastern Gila County. Although warmer temperatures are anticipated Sunday, a more pronounced warming trend is expected Sunday as a short-wave ridge emanating from the eastern Pacific again builds across the region.

Transitory pattern will persist through early next week with another short-wave trough likely passing by to our north Monday night, bringing some slight cooling for Tuesday but no chance of rain. A broad ridge will then slide eastward across the intermountain West for the midweek period, yielding above normal temperatures.

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

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**.AVIATION...**

South-Central Arizona including KPHX, KIWA, and KSDL:

A dry low pressure system will move into Arizona today bringing gusty winds to the terminals. Mainly south winds are expected to pick up around noon today which could create several hours of crosswinds at the airports. However, crosswind gusts should stay at or below 20 kts. Later in the afternoon, winds will slowly begin veering to the southwest and will increase in strength. It is not until late Thursday evening will winds decrease with the westerly surface flow persisting through the night. No ceiling concerns today with only a few high clouds expected.

Southeast California/Southwest Arizona including KIPL and KBLH:

South to southwest winds will pick up today and will become substantially stronger by the afternoon. Southwest wind gusts of 35-40 kts will be possible at KBLH today with slightly weaker gusts at KIPL (30-35 kts). Winds will gradually veer from southwest to northwest at KBLH today while KIPL will stay more westerly. No ceiling concerns expected today as only a few high clouds are in the forecast.

Aviation discussion not updated for amended TAFs.

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**.FIRE WEATHER...**

Saturday through Wednesday: After below normal temperatures on Friday, highs will rebound on Saturday to near normal. Breezy winds are expected once again in SE California and far western Arizona as the low pressure system that will bring us windy conditions today finally exits our area. Thereafter, high pressure will follow for Sunday, resulting in a warming trend and a return to above normal temperatures with relatively light winds. Another passing dry low pressure system may affect our area Monday/Tuesday which should bring another round of breezy winds although no precipitation is expected. Its trajectory will be further north so we are not expecting winds to be anywhere near as strong as what we will see for today. A ridge builds in on Wednesday bringing warming conditions and relatively light winds.

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**.SPOTTER INFORMATION STATEMENT...**

Spotters should follow standard reporting procedures this week.

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**.PSR WATCHES/WARNINGS/ADVISORIES...**

AZ...Red Flag Warning from 3 PM this afternoon to 8 PM MST this



**March 30, 2017 Exceptional Event, Imperial County**  
evening for AZZ131-132.

Wind Advisory from 2 PM this afternoon to 11 PM MST this evening for AZZ020-021-025-026.

CA...Red Flag Warning from 3 PM this afternoon to 8 PM PDT this evening for CAZ231.

Wind Advisory from 2 PM this afternoon to 11 PM PDT this evening for CAZ030>033.

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DISCUSSION...Vasquez/Hirsch  
AVIATION...Wilson  
FIRE WEATHER...Wilson

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FXUS66 KSGX 301615  
AFDSGX

Area Forecast Discussion  
National Weather Service San Diego CA  
915 AM PDT Thu Mar 30 2017

...Severe potentially damaging winds this afternoon and evening over the mountains and deserts...

.SYNOPSIS...

A deep low pressure trough moving across the Great Basin today will bring strong west winds to the mountains and deserts this afternoon and evening. Cooler Friday behind the trough with winds shifting to the northeast. High pressure rebuilding over the region Saturday will bring sunny and warm weather this weekend. Cooler early next week as another trough moves in from the northwest.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...  
SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO  
COUNTIES...

Current forecast is on track today and all models are showing a strong wind event in the mountains and deserts. Winds were starting to increase in the high deserts this morning. At 9 AM, Palmdale reported northwest winds of 32 mph with gusts of 39 mph, and Daggett had southwest winds of 29 mph with gusts to 36 mph.

A deep trough over central CA will intensify and move southeast across the California interior through this evening. This deep trough is unusually strong with 850 mb winds of 50-55 kts between 18-06Z. Winds this strong occur about once every 10 years, and are 3-4 standard anomalies above normal. Desert winds of 30-40 mph will gust to 60 mph or more. Strong wind gusts in mountain waves down the eastern slopes of the mountains will surface in parts of the Coachella Valley and the San Diego County Deserts. Strong cross winds and reduced vis in blowing dust and sand will create hazardous travel conditions. A High Wind Warning is in effect from Noon to 11 pm today.

On the other end of the weather spectrum, low clouds and dense fog have moved into southwestern San Diego County due to a coastal eddy over the coastal waters. Vis was down to 1/4 mile at Imperial Beach and 1/2 mile at North Island at 9 AM.

Winds and weather in the rest of the coastal and valley zones will quieter west of the mountains with mostly sunny skies, above average temperatures and breezy west winds of 10-20 mph in the afternoon.

\*From Previous Discussion\*

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

As the low shifts to the east winds will shift to the north late tonight and into Friday morning. There may be another period of strong winds through Friday morning, although not nearly as severe as what we are expecting with the WNW. Northerly winds will continue through Friday night although not nearly as strong but a wind advisory may be necessary to cover this period after the threat for high winds has ended.

Ridging and moderating temperatures and lighter winds will build in for Saturday and Sunday. An inside slider trough will bring another cooldown Monday and Tuesday as well as another threat for strong winds. Another ridge will build in for Wednesday and

Thursday for another period of moderating temperatures.

Mid latitude moisture transport and Pacific Jet will bring the potential for widespread precipitation to Norcal by the end of next week although it is looking like this system will not make it down to Southern California. Will keep an eye on this though for late season precip potential.

&&

.AVIATION...

301600Z...Patchy fog near the coast this morning could impact KSAN with CIGS 300-500 ft MSL and VIS 1Sm or less until about 17:30Z, but not likely to impact other coastal TAF sites. Otherwise, mostly clear skies today. Coastal low clouds to return and spread rapidly inland this evening after 00Z, mostly in San Diego County. Bases will be rising to between 1000-2000 feet msl. Low clouds could spread inland to the coastal slopes by 06Z, before northeast to east winds develop and begin to clear out the low clouds.

Mountains and deserts...areas of winds 25-35 KT with gusts 40-50 KT after 20Z near mountain crests, desert mountain slopes and some lower elevation desert locations. Strong and variable winds could occur at KPSP and KTRM, with peak winds likely between 23-04Z this afternoon/eve. LLWS and strong up/downdrafts will occur over and east of the mtns, with isolated vis reductions in blowing dust/sand in the deserts. Winds will diminish after 06Z.

&&

.MARINE...

Strong west and northwest winds will develop this afternoon and continue into early Friday, particularly in the outer coastal waters. A small craft advisory contains the details on winds and seas. In portions of the outer waters, winds will gust over 30 knots at times and combined seas could exceed 10 feet. Winds and seas will diminish Friday morning. No hazardous marine weather is expected through Sunday, but strong winds could return Monday.

&&

### March 30, 2017 Exceptional Event, Imperial County

### Appendix A

.SKYWARN...

Skywarn activation is not requested. However weather spotters are encouraged to report significant weather conditions.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...High Wind Warning from noon today to 11 PM PDT this evening for Apple and Lucerne Valleys-Coachella Valley-Riverside County Mountains-San Bernardino County Mountains-San Diego County Deserts-San Diego County Mountains-San Gorgonio Pass Near Banning.

PZ...Small Craft Advisory from 1 PM this afternoon to 8 AM PDT Friday for Waters from San Mateo point to the Mexican Border Extending 30 to 60 nm out including San Clemente Island.

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PUBLIC...Moede  
AVIATION/MARINE...PG

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 NPWPSR

URGENT - WEATHER MESSAGE  
 National Weather Service Phoenix AZ  
 1016 AM MST Thu Mar 30 2017

...Strong winds and Blowing Dust...

AZZ020-021-025-026-CAZ031>033-310530-  
 /O.NEW.KPSR.DU.Y.0002.170330T2200Z-170331T0600Z/  
 /O.CON.KPSR.WI.Y.0007.170330T2100Z-170331T0600Z/  
 Lower Colorado River Valley AZ-West Central Deserts-  
 Yuma/Martinez Lake and Vicinity-Southwest Deserts-  
 Lower Colorado River Valley CA-Riverside County/Eastern Deserts-  
 Imperial County-  
 Including the cities of Ehrenberg, Parker, Bouse, Quartzsite,  
 Salome, Fortuna Foothills, San Luis, Somerton, Yuma, Dateland,  
 Tacna, Wellton, Blythe, Chiriaco Summit, Desert Center,  
 Eagle Mountain, Brawley, Calexico, El Centro, Glamis, Imperial,  
 and The Salton Sea  
 1016 AM MST Thu Mar 30 2017 /1016 AM PDT Thu Mar 30 2017/

...BLOWING DUST ADVISORY IN EFFECT FROM 3 PM MST /3 PM PDT/ THIS  
 AFTERNOON TO 11 PM MST /11 PM PDT/ THIS EVENING...

...WIND ADVISORY REMAINS IN EFFECT FROM 2 PM MST /2 PM PDT/ THIS  
 AFTERNOON TO 11 PM MST /11 PM PDT/ THIS EVENING...

In addition to a Wind Advisory issued earlier, the National  
 Weather Service in Phoenix has also issued a Blowing Dust  
 Advisory from 3 PM MST /3 PM PDT/ this afternoon to 11 PM MST /11  
 PM PDT/ this evening.

- \* AFFECTED AREA...eastern Riverside and Imperial Counties in California, and La Paz and Yuma Counties in Arizona. This includes Interstates 10 and 8 across southeast California including the Colorado River.
- \* TIMING...Thursday afternoon through late evening.
- \* WINDS...West to northwest winds of 25 to 40 mph with gusts to 50 mph. The strongest winds will be focused over La Paz and northern Yuma counties, and along the Colorado River Valley.
- \* VISIBILITY...Below 1 mile at times.
- \* Impacts...Strong winds will create difficult driving conditions especially for high profile vehicles, and Colorado River

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

boaters. Reduced visibility under a mile in blowing dust is likely.

## PRECAUTIONARY/PREPAREDNESS ACTIONS...

A Wind Advisory means that sustained wind speeds of between 30 and 40 mph are expected, or wind gusts of between 40 and 58 mph. Winds this strong can make driving difficult, especially for high profile vehicles. In addition, strong winds over desert areas could result in briefly lowered visibilities to well under a mile at times in blowing dust or blowing sand. Use extra caution.

Be ready for a sudden drop in visibility. If you encounter blowing dust or blowing sand on the roadway or see it approaching, pull off the road as far as possible and put your vehicle in park. Turn the lights all the way off and keep your foot off the brake pedal.

Remember, pull aside, stay alive.

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CAZ030-310530-

/O.CON.KPSR.WI.Y.0007.170330T2100Z-170331T0600Z/

Joshua Tree National Park-

Including the cities of Cottonwood Visitor Center, Keys View, and Lost Horse

1016 AM PDT Thu Mar 30 2017

...WIND ADVISORY REMAINS IN EFFECT FROM 2 PM THIS AFTERNOON TO 11 PM PDT THIS EVENING...

\* AFFECTED AREA...Eastern Riverside County including Interstate 10 from Blythe through the Coachella Valley and Joshua Tree National Park.

\* TIMING...Thursday afternoon through late evening.

\* WINDS...West winds of 25 to 35 mph with gusts up to 45 mph. The highest elevations may see winds gusting up to 55 mph.

\* IMPACTS...Strong winds will create difficult driving conditions especially for high profile vehicles. Locally reduced visibilities due to blowing dust possible.

## PRECAUTIONARY/PREPAREDNESS ACTIONS...

A Wind Advisory means that sustained wind speeds of between 30 and 40 mph are expected, or wind gusts of between 40 and 58 mph. Winds this strong can make driving difficult, especially for high profile vehicles. In addition, strong winds over desert

**March 30, 2017 Exceptional Event, Imperial County**

areas could result in briefly lowered visibilities to well under a mile at times in blowing dust or blowing sand. Use extra caution.

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NPWSGX

URGENT - WEATHER MESSAGE  
National Weather Service San Diego CA  
1223 PM PDT Thu Mar 30 2017

...Very strong and potentially damaging winds in the Mountains and Deserts today through early tonight...

.A deep low pressure system over the Great Basin will generate very strong westerly winds this afternoon and evening over the mountains and deserts. Wind gusts over 60 mph are likely with the potential for damage to trees and utility systems. Barstow recored a wind gust of 58 mph at Noon. The winds will diminish and turn northerly late tonight but remain gusty through Friday.

CAZ060-310600-  
/O.CON.KSGX.HW.W.0006.000000T0000Z-170331T0600Z/  
Apple and Lucerne Valleys-  
Including the cities of Victorville, Hesperia, and Apple Valley  
1223 PM PDT Thu Mar 30 2017

...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 11 PM PDT THIS EVENING...

- \* WINDS...Sustained west winds 30 to 40 mph with gusts to 70 mph.
- \* TIMING...Today through 11 pm tonight. Strongest winds between 2 and 7 PM.
- \* LOCATION...The high deserts including Victorville, Hesperia, and Apple Valley, Interstate 15, Highway 395 and all local roads.
- \* VISIBILITY...Severe restrictions down to a quarter of a mile or less in blowing dust and sand at times.
- \* IMPACTS...Hazardous travel conditions due to low visibility in blowing sand and dust, and sudden, strong cross-winds. Difficult travel for high-profile vehicles, especially Big Rigs which are prone to toppling. Minor structural and tree damage possible.
- \* OUTLOOK...Winds will turn northerly late tonight but will not be as strong. Gusty northerly winds will continue Friday.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A High Wind Warning means a hazardous high wind event is expected or occurring. Sustained wind speeds of at least 40 mph or gusts of 58 mph or more can lead to property damage.



**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

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CAZ055-056-058-061-062-065-310600-

/O.CON.KSGX.HW.W.0006.00000T0000Z-170331T0600Z/

San Bernardino County Mountains-Riverside County Mountains-

San Diego County Mountains-Coachella Valley-

San Diego County Deserts-San Gorgonio Pass Near Banning-

Including the cities of Lake Arrowhead, Big Bear City,

Big Bear Lake, Wrightwood, Julian, Pine Valley, Indio,

Palm Springs, Cathedral City, Palm Desert, Palm Desert Country,

La Quinta, Coachella, Borrego Springs, and Desert Hot Springs

1223 PM PDT Thu Mar 30 2017

...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 11 PM PDT THIS EVENING...

- \* WINDS...Sustained west winds of 20 to 40 mph. Gusts up to 80 mph along mountain tops and the desert mountain slopes. Gusts up to 60 mph in the Coachella Valley and San Diego County desert.
- \* TIMING...This afternoon and evening. The strongest winds are expected between 3 and 9 PM.
- \* LOCATION...From the mountain tops to the desert floor.
- \* VISIBILITY...Severe restrictions of a quarter of a mile or less in blowing dust and sand at times in the deserts.
- \* IMPACTS...Hazardous travel conditions at times due to low visibility in blowing sand and dust, and sudden, strong cross-winds. Difficult travel for high-profile vehicles, especially Big Rigs which are prone to toppling. Minor structural and tree damage possible.
- \* OUTLOOK...Winds will turn northerly tonight and be quite gusty from the northern Coachella Valley and through the Cajon Pass, but not as strong. Gusty northerly winds Friday morning will decrease in the afternoon.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A High Wind Warning means a hazardous high wind event is expected or occurring. Sustained wind speeds of at least 40 mph or gusts of 58 mph or more can lead to property damage.

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FXUS66 KSGX 302047  
AFDSGX

Area Forecast Discussion  
National Weather Service San Diego CA  
145 PM PDT Thu Mar 30 2017

...Severe and potentially damaging winds this afternoon and evening over the mountains and deserts...

.SYNOPSIS...

Strong to severe winds will impact the deserts this afternoon and evening as a powerful low pressure trough moves across the Great Basin. The winds will decrease tonight. Cooler Friday behind the trough with winds shifting to the northeast. High pressure rebuilding over the region Saturday will bring sunny and warm weather this weekend. Cooler early next week as another trough moves in from the northwest.

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.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...  
SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO  
COUNTIES...

Strong winds are surfacing in the High Desert this afternoon where a 62 mph wind gust was recorded at Barstow-Daggett Airport at 1 pm. Burns Canyon had a gust to 67 mph.

A dynamic 546 dm upper low over western Nevada is digging south with an incredibly strong 300 mb 150kt jet over northern California. Convection has formed along and ahead of the surface cold front in Nevada. The atmosphere down here is too dry, but the winds will be very strong. 850 mb winds of 50-60 kt over the Mojave Desert will shift southeast through evening. The high rez HRRR and WRF models project the peak surface winds of 25-35 mph with gusts of 70 mph to surface between 2-7 pm in the High Deserts. Even stronger gusts are possible where mountain waves surface on the eastern slopes of the SBD mountains. Burns Canyon may gust to 80 mph.

Some of this wind energy will also surface in parts of the Coachella Valley and the San Diego County Deserts where gusts of 50-60 mph are possible. Strong cross winds and reduced vis in blowing dust and sand will create hazardous travel conditions. A High Wind Warning is in effect through 11 pm this evening.

Onshore flow and a coastal eddy brought low clouds to the coastal areas this afternoon. The clouds will spread a few miles inland inland this evening, perhaps into the San Diego Valleys, before retreating back to the coast early Friday morning as offshore flow fills in behind the trough passage.

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

The deep upper low will be over northern AZ tonight and the winds will shift from the west to the north through Friday morning. A period of gusty north winds Friday morning will mainly impact the lower deserts, the Cajon Pass and the Santa Ana mountains.

The trough slowly moves east over the weekend followed by ridging and moderating temperatures Saturday and Sunday. An inside slider trough will bring cooling Monday and Tuesday and gusty northwest winds in the mtns and deserts, but much weaker than today.

A more pronounced ridge builds in Wednesday and Thursday for warmer days. Temperatures will be way above average with coastal highs in the 70s, valley highs in the 80s, mountain highs in the 60s, high desert highs in the 80s and lower desert high in the 90s.

Long range outlook for late next week: A zonal Pacific jet will break down the ridge with bring rain to Norcal, but at this time it doesn't look like it will dig deep enough to bring rain to Southern California.

&&

.AVIATION...

302000Z...Areas of low clouds and fog along the coast this afternoon will spread 5-10 miles inland through 06Z Fri...mostly in San Diego County. Expect bases 1000-1500 ft MSL and tops to 2000 ft MSL. Vis restrictions are likely where clouds and terrain intersect. Low clouds could spread inland to the coastal slopes by 06Z, before northeast to east winds develop and begin to clear out the low clouds. Otherwise, mostly clear skies through tonight.

Mountains and deserts...areas of winds 25-35 KT with gusts 40-50 KT this afternoon through tonight near mountain crests, desert mountain slopes and some lower elevation desert locations. Strong and variable winds are expected at KPSP and KTRM, with peak winds likely between 23-04Z this afternoon/eve. Strong up/downdrafts and LLWS will occur over and east of the mtns, with isolated vis reductions in blowing dust/sand in the deserts. Winds will diminish after 09Z Fri.

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.MARINE...

Strong west to northwest winds are developing this afternoon and will continue into early Friday, particularly in the outer coastal waters. A small craft advisory contains the details on winds and seas. In portions of the outer waters, winds will gust over 30 knots at times and combined seas could exceed 10 feet. Winds and seas will diminish Friday morning. No hazardous marine weather is expected through Sunday, but strong winds could return Monday.

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.SKYWARN...

### March 30, 2017 Exceptional Event, Imperial County

### Appendix A

Skywarn activation is not requested. However weather spotters are encouraged to report significant weather conditions.

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.SGX WATCHES/WARNINGS/ADVISORIES...

CA...High Wind Warning until 11 PM PDT this evening for Apple and Lucerne Valleys-Coachella Valley-Riverside County Mountains-San Bernardino County Mountains-San Diego County Deserts-San Diego County Mountains-San Gorgonio Pass Near Banning.

PZ...Small Craft Advisory until 8 AM PDT Friday for Waters from San Mateo point to the Mexican Border Extending 30 to 60 nm out including San Clemente Island.

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PUBLIC...Moede  
AVIATION/MARINE...PG

# IOWA STATE UNIVERSITY

College of Ag  
Department of Agronomy

## Department of Agronomy

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WWUS76 KSGX 302312  
NPWSGX

URGENT - WEATHER MESSAGE  
National Weather Service San Diego CA  
412 PM PDT Thu Mar 30 2017

...Damaging winds in the Mountains and Deserts through this evening...

.A deep low pressure system over the Great Basin will generate very strong westerly winds through this evening over the mountains and deserts. Wind gusts over 60 mph will continue with some damage to trees and utility systems. Blinding dust and sand will occur in areas over the deserts. The winds will diminish and turn northerly late tonight but remain gusty through Friday.

CAZ060-310600-  
/O.CON.KSGX.HW.W.0006.000000T0000Z-170331T0600Z/  
Apple and Lucerne Valleys-  
Including the cities of Victorville, Hesperia, and Apple Valley  
412 PM PDT Thu Mar 30 2017

...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 11 PM PDT THIS EVENING...

- \* WINDS...Sustained west winds 30 to 40 mph with gusts to 70 mph.
- \* TIMING...now through 11 pm tonight. Strongest winds occurring through 7 PM this evening.
- \* LOCATION...The high deserts including Victorville, Hesperia, and Apple Valley, Interstate 15, Highway 395 and all local roads.
- \* VISIBILITY...Severe restrictions down to a quarter of a mile or less in blowing dust and sand at times.
- \* IMPACTS...Hazardous travel conditions due to low visibility in blowing sand and dust, and sudden, strong cross-winds. Difficult travel for high-profile vehicles, especially Big Rigs which are prone to toppling. Minor structural and tree damage possible.
- \* REPORTS...As of 4 PM sustained winds at Victorville were out of the west as high as 38 mph with gusts to 53 mph and west at 33 mph with gusts to 46 mph at Apple Valley.
- \* OUTLOOK...Winds will turn northerly late tonight but will not be as strong. Gusty northerly winds will continue Friday.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

A High Wind Warning means a hazardous high wind event is expected or occurring. Sustained wind speeds of at least 40 mph or gusts of 58 mph or more can lead to property damage.

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CAZ055-056-058-061-062-065-310600-  
/O.CON.KSGX.HW.W.0006.000000T0000Z-170331T0600Z/  
San Bernardino County Mountains-Riverside County Mountains-  
San Diego County Mountains-Coachella Valley-

San Diego County Deserts-San Gorgonio Pass Near Banning-  
Including the cities of Lake Arrowhead, Big Bear City,  
Big Bear Lake, Wrightwood, Julian, Pine Valley, Indio,  
Palm Springs, Cathedral City, Palm Desert, Palm Desert Country,  
La Quinta, Coachella, Borrego Springs, and Desert Hot Springs  
412 PM PDT Thu Mar 30 2017

...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 11 PM PDT THIS EVENING...

- \* WINDS...Sustained west winds of 20 to 40 mph. Gusts up to 80 mph along mountain tops and the desert mountain slopes. Gusts up to 60 mph in the Coachella Valley and San Diego County desert.
- \* TIMING...now through this evening. The strongest winds are expected to occur through 9 PM this evening.
- \* LOCATION...From the mountain tops to the desert floor.
- \* VISIBILITY...Severe restrictions of a quarter of a mile or less in blowing dust and sand at times in the deserts.
- \* IMPACTS...Hazardous travel conditions at times due to low visibility in blowing sand and dust, and sudden, strong crosswinds. Difficult travel for high-profile vehicles, especially Big Rigs which are prone to toppling. Minor structural and tree damage possible.
- \* REPORTS...At 343 PM a wind gust of 64 mph was recorded at Palm Springs Regional Airport.
- \* OUTLOOK...Winds will turn northerly tonight and be quite gusty from the northern Coachella Valley and through the Cajon Pass, but not as strong. Gusty northerly winds Friday morning will decrease in the afternoon.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A High Wind Warning means a hazardous high wind event is expected or occurring. Sustained wind speeds of at least 40 mph or gusts

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WWUS75 KPSR 310149  
NPWPSR

URGENT - WEATHER MESSAGE  
National Weather Service Phoenix AZ  
649 PM MST Thu Mar 30 2017

...Strong winds and blowing dust this evening...

AZZ020-021-025-026-CAZ031>033-310600-  
/O.CON.KPSR.DU.Y.0002.000000T0000Z-170331T0600Z/  
/O.CON.KPSR.WI.Y.0007.000000T0000Z-170331T0600Z/  
Lower Colorado River Valley AZ-West Central Deserts-  
Yuma/Martinez Lake and Vicinity-Southwest Deserts-  
Lower Colorado River Valley CA-Riverside County/Eastern Deserts-  
Imperial County-

Including the cities of Ehrenberg, Parker, Bouse, Quartzsite,  
Salome, Fortuna Foothills, San Luis, Somerton, Yuma, Dateland,  
Tacna, Wellton, Blythe, Chiriaco Summit, Desert Center,  
Eagle Mountain, Brawley, Calexico, El Centro, Glamis, Imperial,  
and The Salton Sea  
649 PM MST Thu Mar 30 2017 /649 PM PDT Thu Mar 30 2017/

...BLOWING DUST ADVISORY REMAINS IN EFFECT UNTIL 11 PM MST /11 PM  
PDT/ THIS EVENING...

...WIND ADVISORY REMAINS IN EFFECT UNTIL 11 PM MST /11 PM PDT/  
THIS EVENING...

A Wind Advisory and Blowing Dust Advisory remain in effect through  
11 PM MST / 11 PM PDT this evening. Observations show significant  
reductions in visibilities are occurring across parts of Riverside  
County and La Paz County as a strong cold front moves through the  
region. These concerns will persist and spread eastward through  
the late evening.

\* AFFECTED AREA...eastern Riverside and Imperial Counties in  
California, and La Paz and Yuma Counties in Arizona. This  
includes Interstates 10 and 8 across southeast California  
including the Colorado River.

\* TIMING...Thursday afternoon through late evening.

\* WINDS...West to northwest winds of 25 to 40 mph with gusts to 50  
mph. The strongest winds will be focused over eastern Riverside,  
La Paz and northern Yuma counties, and along the Colorado River  
Valley.

\* VISIBILITY...Below 1 mile at times.

\* Impacts...Strong winds will create difficult driving  
conditions especially for high profile vehicles, and Colorado  
River boaters. Reduced visibility under a mile in blowing dust

**March 30, 2017 Exceptional Event, Imperial County-****Appendix A**

is likely.

**PRECAUTIONARY/PREPAREDNESS ACTIONS...**

A Wind Advisory means that sustained wind speeds of between 30 and 40 mph are expected, or wind gusts of between 40 and 58 mph. Winds this strong can make driving difficult, especially for high profile vehicles. In addition, strong winds over desert areas could result in briefly lowered visibilities to well under a mile at times in blowing dust or blowing sand. Use extra caution.

Be ready for a sudden drop in visibility. If you encounter blowing dust or blowing sand on the roadway or see it approaching, pull off the road as far as possible and put your vehicle in park. Turn the lights all the way off and keep your foot off the brake pedal.

Remember, pull aside, stay alive.

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CAZ030-310600-

/O.CON.KPSR.WI.Y.0007.000000T0000Z-170331T0600Z/

Joshua Tree National Park-

Including the cities of Cottonwood Visitor Center, Keys View, and Lost Horse

649 PM PDT Thu Mar 30 2017

...WIND ADVISORY REMAINS IN EFFECT UNTIL 11 PM PDT THIS EVENING...

\* AFFECTED AREA...Eastern Riverside County including Interstate 10 from Blythe through the Coachella Valley and Joshua Tree National Park.

\* TIMING...Thursday afternoon through late evening.

\* WINDS...West winds of 25 to 35 mph with gusts up to 45 mph. The highest elevations may see winds gusting up to 55 mph.

\* IMPACTS...Strong winds will create difficult driving conditions especially for high profile vehicles. Locally reduced visibilities due to blowing dust possible.

**PRECAUTIONARY/PREPAREDNESS ACTIONS...**

A Wind Advisory means that sustained wind speeds of between 30 and 40 mph are expected, or wind gusts of between 40 and 58 mph. Winds this strong can make driving difficult, especially for high profile vehicles. In addition, strong winds over desert areas could result in briefly lowered visibilities to well under a mile at times in blowing dust or blowing sand. Use extra



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WWUS75 KPSR 310232

NPWPSR

URGENT - WEATHER MESSAGE

National Weather Service Phoenix AZ

732 PM MST Thu Mar 30 2017

...Strong winds and blowing dust this evening...

AZZ022-027-310600-

/O.EXA.KPSR.DU.Y.0002.000000T0000Z-170331T0600Z/

Northwest Maricopa County-Southwest Maricopa County-

Including the cities of Buckeye, Lake Pleasant, Morristown,

New River, Tonopah, Wickenburg, and Gila Bend

732 PM MST Thu Mar 30 2017

...BLOWING DUST ADVISORY IN EFFECT UNTIL 11 PM MST THIS EVENING...

The National Weather Service in Phoenix has expanded the Blowing Dust Advisory to include northwest and southwest Maricopa County, which is in effect until 11 PM MST this evening.

\* AFFECTED AREA...Eastern Riverside and Imperial Counties in California, and La Paz, Yuma, and western Maricopa Counties in Arizona. This includes Interstates 10 and 8 across southeast California and southwest Arizona.

\* TIMING...Thursday afternoon through late evening.

\* WINDS...West to northwest winds of 25 to 40 mph with gusts to 50 mph. The strongest winds will be focused over eastern Riverside, La Paz and northern Yuma counties, and along the Colorado River Valley.

\* VISIBILITY...Below 1 mile at times.

\* Impacts...Strong winds will create difficult driving conditions especially for high profile vehicles, and Colorado River boaters. Reduced visibility under a mile in blowing dust is likely.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A Wind Advisory means that sustained wind speeds of between 30 and 40 mph are expected, or wind gusts of between 40 and

58 mph. Winds this strong can make driving difficult, especially for high profile vehicles. In addition, strong winds over desert areas could result in briefly lowered visibilities to well under a mile at times in blowing dust or blowing sand. Use extra caution.

Be ready for a sudden drop in visibility. If you encounter blowing dust or blowing sand on the roadway or see it approaching, pull off the road as far as possible and put your vehicle in park. Turn the lights all the way off and keep your foot off the brake pedal.

Remember, pull aside, stay alive.

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 /O.CON.KPSR.DU.Y.0002.000000T0000Z-170331T0600Z/  
 /O.CON.KPSR.WI.Y.0007.000000T0000Z-170331T0600Z/  
 Lower Colorado River Valley AZ-West Central Deserts-  
 Yuma/Martinez Lake and Vicinity-Southwest Deserts-  
 Lower Colorado River Valley CA-Riverside County/Eastern Deserts-  
 Imperial County-  
 Including the cities of Ehrenberg, Parker, Bouse, Quartzsite,  
 Salome, Fortuna Foothills, San Luis, Somerton, Yuma, Dateland,  
 Tacna, Wellton, Blythe, Chiriaco Summit, Desert Center,  
 Eagle Mountain, Brawley, Calexico, El Centro, Glamis, Imperial,  
 and The Salton Sea  
 732 PM MST Thu Mar 30 2017 /732 PM PDT Thu Mar 30 2017/

...BLOWING DUST ADVISORY REMAINS IN EFFECT UNTIL 11 PM MST /11 PM  
 PDT/ THIS EVENING...

...WIND ADVISORY REMAINS IN EFFECT UNTIL 11 PM MST /11 PM PDT/  
 THIS EVENING...

\* AFFECTED AREA...Eastern Riverside and Imperial Counties in  
 California, and La Paz, Yuma, and western Maricopa Counties in  
 Arizona. This includes Interstates 10 and 8 across southeast  
 California and southwest Arizona.

\* TIMING...Thursday afternoon through late evening.

\* WINDS...West to northwest winds of 25 to 40 mph with gusts to  
 50 mph. The strongest winds will be focused over eastern  
 Riverside, La Paz and northern Yuma counties, and along the  
 Colorado River Valley.

- \* VISIBILITY...Below 1 mile at times.
- \* Impacts...Strong winds will create difficult driving conditions especially for high profile vehicles, and Colorado River boaters. Reduced visibility under a mile in blowing dust is likely.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A Wind Advisory means that sustained wind speeds of between 30 and 40 mph are expected, or wind gusts of between 40 and 58 mph. Winds this strong can make driving difficult, especially for high profile vehicles. In addition, strong winds over desert areas could result in briefly lowered visibilities to well under a mile at times in blowing dust or blowing sand. Use extra caution.

Be ready for a sudden drop in visibility. If you encounter blowing dust or blowing sand on the roadway or see it approaching, pull off the road as far as possible and put your vehicle in park. Turn the lights all the way off and keep your foot off the brake pedal.

Remember, pull aside, stay alive.

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CAZ030-310600-  
/O.CON.KPSR.WI.Y.0007.000000T0000Z-170331T0600Z/  
Joshua Tree National Park-  
Including the cities of Cottonwood Visitor Center, Keys View,  
and Lost Horse  
732 PM PDT Thu Mar 30 2017

...WIND ADVISORY REMAINS IN EFFECT UNTIL 11 PM PDT THIS EVENING...

- \* AFFECTED AREA...Eastern Riverside County including Interstate 10 from Blythe through the Coachella Valley and Joshua Tree National Park.
- \* TIMING...Thursday afternoon through late evening.
- \* WINDS...West winds of 25 to 35 mph with gusts up to 45 mph. The highest elevations may see winds gusting up to 55 mph.
- \* IMPACTS...Strong winds will create difficult driving conditions especially for high profile vehicles. Locally

reduced visibilities due to blowing dust possible.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A Wind Advisory means that sustained wind speeds of between 30 and 40 mph are expected, or wind gusts of between 40 and 58 mph. Winds this strong can make driving difficult, especially for high profile vehicles. In addition, strong winds over desert areas could result in briefly lowered visibilities to well under a mile at times in blowing dust or blowing sand. Use extra caution.

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# IOWA STATE UNIVERSITY

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**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

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NOUS45 KPSR 310410  
PNSPSR  
AZZ020>028-CAZ030>033-311610-

Public Information Statement  
National Weather Service Phoenix AZ  
910 PM MST Thu Mar 30 2017

...Maximum Wind Reports of the last 3 hours of 30 mph or greater by state and county...

Location	Speed	Time/Date	Provider
...Arizona...			
...Gila County...			
7 SSW Globe	51 MPH	0712 PM 03/30	CWOP
4 SSE Globe	38 MPH	0706 PM 03/30	RAWS
1 NE Punkin Center	37 MPH	0711 PM 03/30	RAWS
...La Paz County...			
2 W Parker	47 MPH	0726 PM 03/30	RAWS
17 E Cibola	44 MPH	0608 PM 03/30	YPG
4 WSW Vicksburg	43 MPH	0621 PM 03/30	CWOP
14 NNW Gladden	43 MPH	0753 PM 03/30	RAWS
18 W Palm Canyon	39 MPH	0738 PM 03/30	YPG
2 NW Wenden	38 MPH	0709 PM 03/30	CWOP
3 SSW Cibola	37 MPH	0748 PM 03/30	RAWS
5 NE Martinez Lake	31 MPH	0608 PM 03/30	YPG
...Maricopa County...			
4 WSW Phoenix	45 MPH	0800 PM 03/30	MESOWEST
15 WNW Sunflower	44 MPH	0620 PM 03/30	MESOWEST
5 NE Tortilla Flat	43 MPH	0735 PM 03/30	MESOWEST
Gila Bend Af Aux Ap	41 MPH	0749 PM 03/30	AWOS
2 SW Avondale	40 MPH	0847 PM 03/30	AWOS
Phoenix Deer Valley Airport	38 MPH	0753 PM 03/30	ASOS
3 NE Sun City West	38 MPH	0800 PM 03/30	MESOWEST
2 ENE Peoria	37 MPH	0631 PM 03/30	CWOP
Mesa Gateway Airport	35 MPH	0747 PM 03/30	AWOS
1 W Beardsley	35 MPH	0629 PM 03/30	MESOWEST
6 ENE Deer Valley	34 MPH	0653 PM 03/30	CWOP
1 SW Waddell	34 MPH	0748 PM 03/30	CWOP
Scottsdale Municipal Airport	33 MPH	0742 PM 03/30	ASOS
1 SSE Waddell	32 MPH	0831 PM 03/30	CWOP
6 SE Tolleson	32 MPH	0848 PM 03/30	CWOP
9 W Sunflower	32 MPH	0614 PM 03/30	MESOWEST
2 S Citrus Park	32 MPH	0614 PM 03/30	MESOWEST
Palo Verde Ngs	32 MPH	0705 PM 03/30	MESOWEST
4 WSW Gila Bend	32 MPH	0810 PM 03/30	MESOWEST
9 WSW Sunflower	31 MPH	0735 PM 03/30	MESOWEST
4 W Queen Creek	30 MPH	0847 PM 03/30	CWOP
Ahwatukee Foothills	30 MPH	0840 PM 03/30	CWOP

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

8 N Sunflower	30 MPH	0729 PM 03/30	MESOWEST
3 SSW Glendale	30 MPH	0710 PM 03/30	MESOWEST

## ...Pinal County...

Casa Grande Municipal Airpor	41 MPH	0619 PM 03/30	AWOS
10 ESE Queen Creek	36 MPH	0640 PM 03/30	MESOWEST
1 NNW Coolidge	31 MPH	0622 PM 03/30	RAWS
4 SSE Coolidge	31 MPH	0610 PM 03/30	MESOWEST
4 E Apache Junction	30 MPH	0652 PM 03/30	CWOP
7 SE Ak-chin Village	30 MPH	0832 PM 03/30	CWOP

## ...Yuma County...

13 NNW Mohawk	36 MPH	0624 PM 03/30	YPG
12 NNW Tacna	33 MPH	0608 PM 03/30	YPG
6 ESE Martinez Lake	33 MPH	0722 PM 03/30	YPG
10 SE Martinez Lake	33 MPH	0722 PM 03/30	YPG
10 NNW Wellton	32 MPH	0822 PM 03/30	YPG
10 SSE Martinez Lake	30 MPH	0822 PM 03/30	YPG

## ...California...

## ...Imperial County...

17 NNW Coyote Wells	60 MPH	0726 PM 03/30	RAWS
Mountain Springs Grade	58 MPH	0750 PM 03/30	RAWS
Sunrise	52 MPH	0810 PM 03/30	SDGE
2 N Salton City	44 MPH	0647 PM 03/30	CWOP
4 S Martinez Lake	44 MPH	0627 PM 03/30	RAWS
2 ESE Niland	44 MPH	0625 PM 03/30	MESOWEST
10 SW Winona	40 MPH	0810 PM 03/30	AWS
Imperial County Airport	38 MPH	0618 PM 03/30	ASOS
4 ENE Gordon's Well	32 MPH	0809 PM 03/30	RAWS

## ...Riverside County...

8 E Rice	57 MPH	0750 PM 03/30	RAWS
17 E Desert Center	45 MPH	0800 PM 03/30	MESOWEST
8 NE Desert Center	40 MPH	0700 PM 03/30	MESOWEST
7 NE Eagle Mtn	31 MPH	0700 PM 03/30	MESOWEST

Observations are collected from a variety of sources with varying equipment and exposures. Not all data listed are considered official.

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NWS Phoenix AZ  
IRIS System

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FXUS66 KSGX 310440  
AFDSGX

Area Forecast Discussion  
National Weather Service San Diego CA  
940 PM PDT Thu Mar 30 2017

...Winds Peaked Across the Mountains/Deserts and will Subside...

.SYNOPSIS...

A powerful low pressure trough moving across the Great Basin brought severe winds to the mountains and deserts this afternoon and evening. The winds have peaked and will subside overnight while becoming northerly. It will be cooler Friday behind the trough with winds shifting to the northeast. High pressure rebuilding over the region Saturday will bring sunny and warm weather this weekend before it turns cooler early next week as another trough moves in from the northwest.

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.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...  
SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO  
COUNTIES...

...Update...

Severe winds impacted the mountain tops to the desert floor this afternoon and evening. Peak gusts were 94 mph at Burns Canyon, 69 mph at Anza Borrego Desert Research Center, 68 mph at Whitewater, 66 mph at Palm Springs and 60 mph at Victorville.

Blowing dust and sand resulted in severe visibility restrictions in areas and some trees toppling along with some damage to awnings and signs in the Coachella Valley with 2 injuries reported. Some roads impacted by sand and 100s of tumbleweeds, leading to closures. Quite an impactful day in the deserts!

The winds have peaked and will continue to subside this evening and overnight as they turn northerly. Hi-res models continue to show that as the winds switch to the north they will not be so strong.

...Previous Discussion (Issued at 145 PM PDT Thu Mar 30 2017)...

The deep upper low will be over northern AZ tonight and the winds will shift from the west to the north through Friday morning. A period of gusty north winds Friday morning will mainly impact the lower deserts, the Cajon Pass and the Santa Ana mountains.

The trough slowly moves east over the weekend followed by ridging and moderating temperatures Saturday and Sunday. An inside slider

**March 30, 2017 Exceptional Event, Imperial County****Appendix A**

trough will bring cooling Monday and Tuesday and gusty northwest winds in the mtns and deserts, but much weaker than today.

A more pronounced ridge builds in Wednesday and Thursday for warmer days. Temperatures will be way above average with coastal highs in the 70s, valley highs in the 80s, mountain highs in the 60s, high desert highs in the 80s and lower desert high in the 90s.

Long range outlook for late next week: A zonal Pacific jet will break down the ridge with bring rain to Norcal, but at this time it doesn't look like it will dig deep enough to bring rain to Southern California.

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.AVIATION...

310430Z...Areas of BKN low clouds in coastal/valley areas of San Diego County and parts of Southwestern Riverside County will gradually dissipate between 06Z and 09Z. Bases will be 2000-3000 ft MSL with tops to 3500 ft MSL. Mostly clear skies will prevail after 09Z through Friday evening. Vis will be 6 miles or greater through Friday evening. Local northeast winds with gusts to 30 KT will occur late tonight and Friday morning near the foothills of the San Bernardino Mountains, including vcnty KSBD.

Mountains and deserts...Strong west to northwest winds will gradually decrease tonight, but areas of winds 25-35 KT with gusts 40-50 KT will continue through 06Z and 20-30 KT gusts 30-40 KT 06Z-12Z. LLWS, strong up/downdrafts and local vis reductions 1-3 miles in blowing dust/sand will continue through 12Z Fri.

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.MARINE...

Strong northwest winds will continue overnight in the outer waters and spread into the inner waters after midnight. Winds will be 20-25 knots with gusts to 30 knots, with combined seas 6-10 feet in the inner waters and 8-11 feet in the outer waters. Winds and seas will diminish Friday morning. No hazardous marine weather is expected Friday afternoon through next Tuesday.

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.SKYWARN...

Skywarn activation is not requested. However weather spotters are encouraged to report significant weather conditions.

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.SGX WATCHES/WARNINGS/ADVISORIES...

CA...High Wind Warning until 11 PM PDT this evening for Apple and Lucerne Valleys-Coachella Valley-Riverside County Mountains-San Bernardino County Mountains-San Diego County Deserts-San Diego County Mountains-San Gorgonio Pass Near Banning.



PZ...Small Craft Advisory until 8 AM PDT Friday for Coastal Waters from San Mateo Point to the Mexican Border and out to 30 nm- Waters from San Mateo point to the Mexican Border Extending 30 to 60 nm out including San Clemente Island.

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PUBLIC...Gregoria (Update)/Moede (Previous Discussion) AVIATION/MARINE...Maxwell

# IOWA STATE UNIVERSITY

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FXUS65 KPSR 310451  
AFDPSR

Area Forecast Discussion  
National Weather Service Phoenix AZ  
951 PM MST Thu Mar 30 2017

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.SYNOPSIS...

A strong low pressure system will produce windy conditions this evening along with much cooler temperatures Friday. Isolated precipitation is possible across the higher terrain of eastern Arizona Saturday as the storm lingers. Warmer conditions will then return Sunday and into early next week as high pressure again builds across the region.

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.DISCUSSION...

A strong cold front is advancing east-southeastward across southwest Arizona, bringing widespread blowing dust with visibilities under one mile in many locations. Wind speeds have also strengthened both ahead of and behind the front, with frequent gusts of 30-40 mph being observed across south-central and southwest Arizona. These conditions are forecast to persist through at least 07Z across central Arizona, as 30-40 kts was observed above the surface per KIWA VWP data. Otherwise, areas of blowing dust should spread eastward but become more diffuse with time, although some localized areas of denser blowing dust will be possible in outlying areas. Adjustments were made both to the forecast grids and to the Blowing Dust Advisory to account for short-term trends.

Otherwise, a mature midlevel cyclone continues to dig south-southeastward across the western Great Basin. Some gusty westerly winds will remain possible, but weaker than today. Much cooler temperatures are also forecast tomorrow, with highs in the upper 60s to low 70s a good bet across the lower deserts.

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PREVIOUS DISCUSSION...

Friday and Friday night...

Lighter winds, but still breezy, from the north and northwest will continue on Friday, along with a dramatic cool down in the aftermath of the cold front. Mostly clear skies are also forecast over our area. The former Pacific low pressure system will have settled over northern AZ Friday afternoon as a cutoff low will become nearly stationary into early Saturday.

Saturday and Saturday night...

Models forecast the northern AZ cutoff low to slowly drift into western New Mexico by Friday afternoon. Some of the coldest air aloft, with afternoon instability, will brush by our mountainous zone 24, southern Gila County. There is a slight chance of a shower or afternoon thunderstorm Saturday afternoon in zone 24 from Globe/Miami eastward, particularly over the highest terrain of the San Carlos Apache Indian Reservation bordering the White Mountains. Clearing Saturday night. A relatively cool afternoon is expected in south central AZ Saturday, but starting to warm significantly over the southeast CA and southwest AZ deserts.

Sunday through next Thursday...

Except for another fast moving disturbance across Utah and far northern AZ on Monday, our forecast area will remain mostly clear with above normal temperatures. In fact a strong warm-up is forecast Wednesday and Thursday as an unseasonably strong high pressure system builds over the region.

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.AVIATION...

South-Central Arizona including KPHX, KIWA, and KSDL...  
Southeast California/Southwest Arizona including KIPL and KBLH...

A strong cold front continues to quickly advance eastward, and will affect area terminals between 05-07Z. Winds are gusting to 40 kts at KPHX out of the southwest ahead of the front. A wind shift to west or west-northwest will occur in the wake of the front, with wind gusts to 40 kts remaining possible through 08Z or so. Some brief reductions in visibility may also accompany frontal passage, perhaps as low as 4-5 SM. Winds should gradually weaken overnight but remain out of the west. Low-level cloud cover is also increasing as the front moves through the region, with SCT to temporarily broken coverage around 7-10 thsd ft expect. Modest strengthening of winds will occur again tomorrow with gusts of 20-25 kts possible.

Aviation discussion not updated for amended TAFs.

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.FIRE WEATHER...

Saturday through Wednesday: After below normal temperatures on Friday, highs will rebound on Saturday to near normal. Breezy winds are expected once again in SE California and far western Arizona as the low pressure system that will bring us windy conditions today finally exits our area. Thereafter, high pressure will follow for Sunday, resulting in a warming trend and a return to above normal temperatures with relatively light winds. Another

**March 30, 2017 Exceptional Event: Imperial County**

passing dry low pressure system may affect our area Monday/Tuesday which should bring another round of breezy winds although no precipitation is expected. Its trajectory will be further north so we are not expecting winds to be anywhere near as strong as what we will see for today. A ridge builds in on Wednesday bringing warming conditions and relatively light winds.

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.SPOTTER INFORMATION STATEMENT...

Spotters should follow standard reporting procedures this week.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...Blowing Dust Advisory until 11 PM MST this evening for  
AZZ020>022-025>027.

Wind Advisory until 11 PM MST this evening for AZZ020-021-025-  
026.

CA...Blowing Dust Advisory until 11 PM PDT this evening for  
CAZ031>033.

Wind Advisory until 11 PM PDT this evening for CAZ030>033.

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Visit us on Facebook, Twitter, and at [weather.gov/phoenix](http://weather.gov/phoenix)

DISCUSSION...Rogers

PREVIOUS DISCUSSION...Vasquez

AVIATION...Rogers

FIRE WEATHER...Wilson

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NPWPSR

URGENT - WEATHER MESSAGE  
National Weather Service Phoenix AZ  
1044 PM MST Thu Mar 30 2017

AZZ020-021-025-026-CAZ031>033-310645-  
/O.EXP.KPSR.DU.Y.0002.000000T0000Z-170331T0600Z/  
/O.EXP.KPSR.WI.Y.0007.000000T0000Z-170331T0600Z/  
Lower Colorado River Valley AZ-West Central Deserts-  
Yuma/Martinez Lake and Vicinity-Southwest Deserts-  
Lower Colorado River Valley CA-Riverside County/Eastern Deserts-  
Imperial County-

Including the cities of Ehrenberg, Parker, Bouse, Quartzsite,  
Salome, Fortuna Foothills, San Luis, Somerton, Yuma, Dateland,  
Tacna, Wellton, Blythe, Chiriaco Summit, Desert Center,  
Eagle Mountain, Brawley, Calexico, El Centro, Glamis, Imperial,  
and The Salton Sea  
1044 PM MST Thu Mar 30 2017 /1044 PM PDT Thu Mar 30 2017/

...BLOWING DUST ADVISORY WILL EXPIRE AT 11 PM MST /11 PM PDT/  
THIS EVENING...  
...WIND ADVISORY WILL EXPIRE AT 11 PM MST /11 PM PDT/ THIS  
EVENING...

A strong cold front has shifted east of the area, into central  
Arizona. Wind gusts of 30-35 mph are still occurring, but have  
gradually weakened in the wake of the front and should continue to  
weaken overnight.

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AZZ022-027-310645-  
/O.EXP.KPSR.DU.Y.0002.000000T0000Z-170331T0600Z/  
Northwest Maricopa County-Southwest Maricopa County-  
Including the cities of Buckeye, Lake Pleasant, Morristown,  
New River, Tonopah, Wickenburg, and Gila Bend  
1044 PM MST Thu Mar 30 2017

...BLOWING DUST ADVISORY WILL EXPIRE AT 11 PM MST THIS EVENING...

A strong cold front has shifted east of the area, and the  
potential for widespread blowing dust should continue to decrease  
through early Friday morning. Wind gusts of 30-35 mph are still  
possible.

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CAZ030-310645-  
/O.EXP.KPSR.WI.Y.0007.000000T0000Z-170331T0600Z/  
Joshua Tree National Park-

**March 30, 2017 Exceptional Event, Imperial County**

Including the cities of Cottonwood Visitor Center, Keys View,  
and Lost Horse

1044 PM PDT Thu Mar 30 2017

...WIND ADVISORY WILL EXPIRE AT 11 PM PDT THIS EVENING...

Widespread advisory level winds are no longer expected as a cold  
front has shifted well east of the area. However, gusts of 30-35  
mph still remain possible into early Friday morning.

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