

TYPE	DATE	TIME	AGENCY	DESCRIPTION	PAGE	
Area Forecast Discussion	4/14/2018	0308	MST	Phoenix	<p>...There will be two systems to affect us next week and both will be characteristic of April events where we get wind and cooler temperatures but no real rain potential. The first one brings widespread windy conditions on Monday. At this point, winds for south-central AZ (including Phoenix) aren't looking quite as strong as what we had on Thursday. But other portions of our forecast area, namely far southeast CA, will get pretty windy. That means blowing dust and sand there but also anticipate some of that reaching south-central AZ. As it is, expect there will be locally generated patchy blowing dust - especially over Pinal County. Cool advection starts in southeast CA Monday afternoon and overspreads much of AZ Monday night leading to much cooler highs by Tuesday (upper 70s)... The second system generally follows a similar pattern as the preceding one for the Thursday-Friday time frame.</p>	59
Area Forecast Discussion	4/14/2018	0322	PDT	San Diego	<p>High pressure aloft over California will weaken and move inland as a low pressure system moves inland along the West Coast for Sunday night through Monday night. Weakening offshore flow will become weakly onshore Sunday...then strongly onshore for Sunday night through Monday evening. Gusty northeast to east winds near the coastal foothills will weaken this morning. Strengthening onshore flow will bring periods of strong gusty southwest to west winds to the mountains and deserts for Sunday night through Monday evening. Cooling will develop near the coast on Sunday...then spread inland on Monday and Tuesday. There are small chances for light showers at times along and west of the mountains from late Sunday night through Monday night....</p>	61
Area Forecast Discussion	4/14/2018	0904	PDT	San Diego	<p>The high pressure aloft over California will maintain warm and dry conditions through Sunday, even as it gradually weakens and moves east ahead of a low pressure trough approaching from the northwest. As a result, temps west of the mtns will decrease on Sunday as the flow turns onshore. ...As the low pressure trough moves in, strengthening onshore flow will bring periods of strong, gusty southwest to west winds to the mountains and deserts for Sunday night through Monday night. Wind gusts of 45 to 55 mph will be possible in these areas, with gusts of 60 mph possible at some locations. We can also expect a deepening marine layer with low clouds and fog spreading inland to the coastal mtn slopes by early Monday morning, and light precip will be possible from the coastal mtn slopes westward from early Monday morning through Monday night.</p>	63
Urgent Weather Message	4/14/2018	1318	PDT	San Diego	<p>...STRONG SOUTHWEST TO WEST WINDS FOR THE MOUNTAINS AND DESERTS FROM SUNDAY NIGHT THROUGH MONDAY NIGHT...High Wind Watch is in effect from late Sunday night through late Monday night... Southwest to west winds 45 to 50 mph gusting to 60 mph. Local gusts to 70 mph. Near mountain ridge tops and along desert slopes.</p>	65

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Area Forecast Discussion	4/14/2018	1420	MST	Phoenix	<p>...While likely not quite a potent as the system earlier in the week, a vigorous jet core will translate a nice vorticity center and height falls into SE California and northern Arizona Monday afternoon. While this system is not entirely unusual for April, the midtropospheric jet core extending from near SAN-FLG will be very robust falling into the 99th percentile; and a solid branch of 50kt H7 winds will round the trough base and eject along and behind the theta-e frontal boundary. There may be a couple limiting factors relating to the expanse of stronger winds, 1) the most pronounced height falls will be concentrated towards southern NV/northern AZ and 2) thick mid/high clouds are very likely throughout the day potentially reducing mixing heights and ability to fully tap the highest momentum winds. Regardless, models are in good agreement depicting a tightening pressure gradient along and ahead of the front Monday afternoon; and favorable timing for downsloping winds and mountain rotors through SE California. Gusts above 40-45 mph (solid advisory) appear inevitable for locations along and west of the Colorado River with the attendant risk of dense bowing dust in the usual locations. Further east into central Arizona and more removed from the best height falls, weaker H8-H7 winds will likely keep gusts in the 30-35 mph range;...</p>	66
Area Forecast Discussion	4/14/2018	2053	PDT	San Diego	<p>Onshore flow becomes moderate Sunday night and on Monday the mid level flow peaks to 60 knots (700 mb) of southwest flow with a sharp baroclinic zone. The wind shift to northwest does not occur until late Monday so we could see the strongest winds in the passes and downslope areas on Monday and across the Coachella Valley late Monday afternoon and Monday evening and only gradually decreasing into Monday night. The High Wind Watch looks justified given timing and strength. Local areas of damage due to rotoring and downsloping winds. There is a sharp inversion at 830-860 mb where we will see breaking wave potential and momentum transfer as see on Bufkit model soundings.</p>	69
Urgent Weather Message	4/15/2018	0311	PDT	San Diego	<p>...STRONG SOUTHWEST TO WEST WINDS FOR THE MOUNTAINS AND DESERTS FOR LATE TONIGHT INTO MONDAY NIGHT... High Wind Watch remains in effect from late tonight through late Monday night... Southwest to west winds 35 to 45 mph with gusts to 65 mph. Local gusts to 75 mph. The strongest and most widespread winds are expected for Monday afternoon and evening. Location...Near mountain ridge tops and along desert mountain slopes into adjacent desert areas. Interstate 8 through the San Diego County mountains...areas of blowing dust and sand will reduce visibility at times.</p>	71
Area Forecast Discussion	4/15/2018	0333	MST	Phoenix	<p>..Today..Water vapor imagery over western North America and adjacent northeast Pacific shows a ridge axis over the interior West with a large low pressure system moving into western Canada and the Pacific Northwest. This system is pulling some subtropical moisture northward but it is mostly in the upper half of the troposphere. As the low pressure system digs southeastward today, it will displace the ridge eastward. ... Monday and Tuesday...Winds pick up on Monday with the approach of the upper trough and associated cold front. The front will pass through southeast California Monday afternoon and across Arizona Monday night. Strong winds can be expected over southeast California and southwest Arizona during that time with breezy to windy conditions over south-central Arizona. One limiting factor to the wind speeds for the south-central Arizona deserts will be reduced mixing due to thick mid-high clouds in the afternoon. However, if the clouds depart by mid afternoon, breeziness will be stronger. ...</p>	73

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Area Forecast Discussion	4/15/2018	0344	PDT	San Diego	<p>That low pressure system will move inland along the West Coast tonight and Monday. It will bring much stronger onshore flow across Southern California for tonight into Monday night. Southwest to west winds will develop in the mountains and deserts for late this afternoon and evening...strengthening tonight...and becoming more widespread Monday. The strongest and most widespread winds are expected for Monday afternoon and evening. The winds are expected to diminish from north to south late Monday night.</p>	76
Area Forecast Discussion	4/15/2018	0440	MST	Phoenix	<p>...UPDATE...Updated aviation and fire weather discussions. ...Southeast California/Southwest Arizona including KIPL and KBLH: A modest increase in wind speeds anticipated this afternoon across southeast California, with gusts of 20-25 forecast to occur. These gusts should continue into the late evening across KIPL while remaining out of the west. Thicker upper-level cloudiness will also spread eastward across southeast California, with ceilings approaching 15 thousand feet at KBLH this evening and overnight.</p>	78
Area Forecast Discussion	4/15/2018	0922	PDT	San Diego	<p>This morning...Mid and high clouds are spreading across the region from the northwest, ahead of an approaching low pressure system...The low pressure system will move inland along the West Coast tonight and Monday. It will bring much stronger onshore flow across Southern California tonight into Monday night. Southwest to west winds will strengthen in the mountains and deserts late this afternoon through tonight, becoming more widespread Monday. The strongest and most widespread winds are expected Monday afternoon and evening when winds of 35-45 mph with gusts to 65 mph are expected. The winds are expected to diminish from north to south late Monday night.</p>	81
Area Forecast Discussion	4/15/2018	1228	MST	Phoenix	<p>...UPDATE...Updated aviation and fire weather discussions. ...Southeast California/Southwest Arizona including KIPL and KBLH: The wind speeds will generally increase through this afternoon ahead of another weather system with gusts up to 20 kts possible. However, the winds look to blow even stronger by late Monday morning with gusts exceeding 20 kts. In addition, the stronger winds may cause some isolated areas of blowing dust and possibly reducing visibility. Otherwise, some thicker clouds AOA 15k feet will begin to pass over the area Sunday and clearing by late Monday.</p>	83

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Urgent Weather Message	4/15/2019	1313	PDT	San Diego	<p>...STRONG SOUTHWEST TO WEST WINDS FOR THE MOUNTAINS AND DESERTS FOR LATE TONIGHT INTO MONDAY NIGHT.....WIND ADVISORY IN EFFECT FROM MIDNIGHT TONIGHT TO 5 AM PDT TUESDAY...The National Weather Service in San Diego has issued a Wind Advisory...which is in effect from midnight tonight to 5 AM PDT Tuesday. The High Wind Watch is no longer in effect. * Winds...Southwest to west winds 35 to 45 mph with gusts to 65 mph. Local gusts to 75 mph.</p> <p>* Timing...Winds will develop late this afternoon and evening then strengthen tonight. The strongest and most widespread winds are expected for Monday afternoon and evening. The winds will weaken late Monday night.</p> <p>* Location...Near mountain ridge tops and along desert mountain slopes into adjacent desert areas.</p> <p>* Impacts...The winds will make driving difficult...especially for motorists with high profile vehicles. This will impact portions of Interstate 10 through the San Geronio Pass and the Coachella Vally...Interstate 8 through the San Diego County mountains...and Interstate 15 across desert areas north of the Cajon Pass. In the deserts...areas of blowing dust and sand will reduce visibility at times. Watch for broken tree limbs and other debris.</p> <p>* Outlook...Another round of strong west winds is expected for Wednesday night into Thursday night.</p>	86
Urgent Weather Message	4/15/2019	1315	PDT	Phoenix	<p>..Parker Valley-Joshua Tree NP West-Joshua Tree NP East-Imperial County Southwest-Salton Sea-Chuckwalla Mountains-Imperial County Southeast Imperial County West-Imperial Valley-Chiriaco Summit-Palo Verde Valley-Chuckwalla Valley-Including the cities of Parker, Ehrenberg, Cottonwood Visitor, Lost Horse-Keys Village, Mountain Spring, Desert Shores, Imperial Hot Mineral Springs, Winterhaven, Coolidge Springs, Salton City, Winona, Coyote Wells, Ocotillo, Plaster City, El Centro, Calexico, Alamorio, Brawley, Chiriaco Summit, Martinez Lake, Blythe, Palo Verde, Ripley, and Midland</p> <p>...WIND ADVISORY IN EFFECT FROM 2 PM MST /2 PM PDT/ TO 9 PM MST /9 PM PDT/ MONDAY...The National Weather Service in Phoenix has issued a Wind Advisory, which is in effect from 2 PM MST /2 PM PDT/ to 9 PM MST/9 PM PDT/ Monday. * AFFECTED AREA...All of Southeast California and far western Arizona along the Colorado River *</p> <p>WINDS...Westerly winds of 25 to 35 mph with gusts in excess of 40 mph.</p>	88
Area Forecast Discussion	4/15/2018	1340	PDT	San Diego	<p>This afternoon...Variable mid and high clouds continue over SOCAL ahead of an approaching low pressure system....Surface pressure gradients are trending more strongly onshore and are currently 5.4 mb SAN-TPH and 3.8 mb SAN-TRM. The onshore flow is producing west winds from the coast to the mtns, with the highest gust so far of 41 mph at Whitewater between 12 pm and 1 pm.</p>	89
Area Forecast Discussion	4/15/2018	1411	MST	Phoenix	<p>..High clouds are beginning to stream across much of the forecast area this afternoon. This is associated with an upper level surge of moisture flowing off the Pacific and driven by an approaching low pressure system off the Oregon coast. ...however, as that low pressure system will edge closer to the desert southwest, increasing pressure gradients which means higher wind speeds. By Monday evening that gradient will be strongest as the weather system passes as a strong trough to the north of Arizona.</p>	92

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Urgent Weather Message	4/15/2019	1508	PDT	San Diego	<p>...Increasingly strong winds for the mountains and deserts tonight through Monday night...Coachella Valley-San Diego County Deserts-Including the cities of Indio, Palm Springs, Cathedral City, Palm Desert, Palm Desert Country, La Quinta, Coachella, and Borrego Springs.....WIND ADVISORY REMAINS IN EFFECT FROM MIDNIGHT TONIGHT TO 5 AM PDT TUESDAY...</p> <p>* Winds...West to Northwest winds 25 to 35 mph with gusts to 45 mph. Local gusts to 55 mph.</p> <p>* Timing...Winds will develop late this afternoon and evening then strengthen overnight. The strongest and most widespread winds are expected for Monday afternoon and evening. The winds will weaken late Monday night and early Tuesday.</p> <p>* Location...Coachella Valley including Palm Springs and Borrego Valley deserts.</p> <p>* Impacts...The winds will make driving difficult...especially for motorists with high profile vehicles. This will impact portions of Interstate 10 through the San Geronio Pass and the Coachella Vally...Interstate 8 through the San Diego County mountains into the deserts. There will also be areas of blowing dust and sand which will reduce visibility at times. Watch for broken tree limbs and other debris.</p>	96
Area Forecast Discussion	4/15/2018	1519	MST	Phoenix	<p>Aviation Update...Southeast California/Southwest Arizona including KIPL and KBLH: The wind speeds will generally increase through this afternoon ahead of another weather system with gusts up to 20 kts possible.</p> <p>However, the winds look to blow even stronger by late Monday morning with gusts exceeding 20 kts. In addition, the stronger winds may cause some isolated areas of blowing dust and possibly reducing visibility. ...</p>	99
Urgent Weather Message	4/15/2019	2037	PDT	San Diego	<p>...Increasingly strong winds for the mountains and deserts tonight through Monday night...Coachella Valley-San Diego County Deserts-Including the cities of Indio, Palm Springs, Cathedral City, Palm Desert, Palm Desert Country, La Quinta, Coachella, and Borrego Springs</p> <p>...HIGH WIND WARNING IN EFFECT FROM MIDNIGHT TONIGHT TO 5 AM PDT TUESDAY...The National Weather Service in San Diego has issued a High Wind Warning...which is in effect from midnight tonight to 5 AM PDT Tuesday. The is an upgrade and the Wind Advisory is no longer in effect.</p> <p>* Winds...West to Northwest winds 10 to 20 mph with gusts to 30 mph overnight. Winds increasing to speeds of 20 to 30 mph with gusts to 45 mph on Monday. Local wind gusts to around 55 mph Monday afternoon and evening.</p> <p>* Timing...The strongest and most widespread winds are expected for Monday afternoon and evening. The winds will weaken late Monday night and early Tuesday.</p> <p>* Location...Coachella Valley including Palm Springs and Borrego Valley deserts.</p> <p>* Visibility...Reduced to a couple miles due to blowing dust.</p> <p>* Impacts...The winds will make driving difficult...especially for motorists with high profile vehicles. This will impact portions of Interstate 10 through the San Geronio Pass and the Coachella Vally...Interstate 8 through the San Diego County mountains into the deserts. There will also be areas of blowing dust and sand which will reduce visibility at times. Wind gusts over 50 mph can down trees, powerpoles and signs. Watch for tree limbs and other debris.</p> <p>* Outlook...Another round of strong northwest winds is expected for Wednesday night into Thursday night.</p> <p>* Reports...Report wind damage to law enforcement.</p>	102

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Area Forecast Discussion	4/15/2018	2102	PDT	San Diego	<p>...The lower deserts still topped around 90F. We have seen moderate flow into the San Gorgonio Pass and now still into northern Coachella Valley. Lots of great views of lenticular clouds out the window and on webcams. Winds aloft increase notably after midnight. We should see the passes also increase again. ...The incoming short wave trough is rather strong with 545 DM at 500 mb cutting into the southern Sierra Nevada. Wind speeds at 700 mb are progged to peak at 60-65 knots from 21-03 UTC, Monday afternoon and evening. The return interval and anomaly indicates similar strength to the April 12 wind event. This is a mountain, high desert and lower desert type of wind event again, but strong even for these areas with potential for breaking waves due to a stable moist layer up to about 800 mb. Even some light showers for the mountains as the trough axis arrives Monday evening. Given the wind potential and the impact in the Coachella Valley and San Diego desert region as it occurs in Aprils in the past we have issued an upgrade to a High Wind Warning. The message was separated too so that 75 mph wind does not get included in the lower deserts which will see northwest winds and gusts to around 55-60 mph. There is potential for 80 mph wind at most wind prone areas on the desert slopes during the trough axis and wind shift occurs Monday evening between 21 and 09 UTC and then winds decrease but last in the Coachella Valley due to postfrontal northwest enhancement.</p>	106
Urgent Weather Message	4/16/2018	0226	MST	Phoenix	<p>Parker Valley-Joshua Tree NP West-Joshua Tree NP East-Imperial County Southwest-Salton Sea-Chuckwalla Mountains-Imperial County Southeast-Imperial County West-Imperial Valley-Chiriaco Summit-Palo Verde Valley-Chuckwalla Valley-Including the cities of Parker, Ehrenberg, Cottonwood Visitor, Lost Horse-Keys Village, Mountain Spring, Desert Shores, Imperial Hot Mineral Springs, Winterhaven, Coolidge Springs, Salton City, Winona, Coyote Wells, Ocotillo, Plaster City, El Centro, Calexico, Alamorio, Brawley, Chiriaco Summit, Martinez Lake, Blythe, Palo Verde, Ripley, and Midland.....WIND ADVISORY NOW IN EFFECT FROM 2 PM MST /2 PM PDT/ THIS AFTERNOON TO 11 PM MST /11 PM PDT/ THIS EVENING...Generally..All of Southeast California and far western Arizona along the Colorado River...Westerly winds of 25 to 35 mph with gusts in excess of 40 mph...Winds may cause areas of blowing dust...</p>	109
Urgent Weather Message	4/16/2019	0236	PDT	San Diego	<p>...STRONG GUSTY WEST WINDS FOR THE MOUNTAINS AND DESERTS THROUGH LATE TONIGHT.....San Diego County Deserts-Including the city of Borrego Springs...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY.....San Bernardino County Mountains-Riverside County Mountains-San Diego County Mountains-Including the cities of Crestline, Lake Arrowhead, Big Bear City, Big Bear Lake, Running Springs, Wrightwood, Idyllwild-Pine Cove, and Julian...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY...Coachella Valley-Including the city of Cathedral City...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY... See specific wind speeds within notice however generally winds in the desert "Areas of west to northwest winds 20 to 30 mph with gusts to 45 mph." Generally in the San Diego mountains.."Areas of southwest to west winds 30 to 40 mph with gusts to 65 mph. Isolated gusts to 80 mph."</p>	110

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Area Forecast Discussion	4/16/2018	0302	PDT	San Diego	<p>..Surface reports show stronger winds early this morning mostly confined to areas near the mountain ridge tops onto the upper desert slopes. The winds will gradually strengthen and spread into the deserts through this morning. The strongest and most widespread winds are expected for this afternoon and evening... decreasing late tonight into early Tuesday. The low pressure system moving inland along the West Coast bringing the much stronger onshore flow will spread cooling inland today.</p>	114
Area Forecast Discussion	4/16/2018	0318	MST	Phoenix	<p>...A band of mid-/upper-level cloudiness continues to spread northeastward from the Pacific, ahead of a storm system off the coast of northern California....The more significant impact will be the increasing wind speeds across the area. Forecast models indicate a significant strengthening in flow within the H5-7 layer will occur this afternoon as the upper-level disturbance accelerates east of the area. Diurnal mixing beneath the increasing flow aloft, along with a tightening gradient in response to rapid pressure falls across the eastern Great Basin and northern Rockies, will result in increasing wind speeds this afternoon. The most notable signal for strong winds remains across southeast California into the lower Colorado River Valley, where gusts in excess of 40 mph will be possible this afternoon. Breezy conditions are still expected across southwest/south-central Arizona, where gusts of 25-30 mph are forecast to occur. This will be enough to generate at least patchy blowing dust across the lower deserts this afternoon....</p>	117
Area Forecast Discussion	4/16/2018	0543	MST	Phoenix	<p>...UPDATE...Updated Aviation and Fire Weather sections..Southeast California/Southwest Arizona including KIPL and KBLH: The approach and passage of a dry cold front will lead to strengthening southwesterly flow at the surface and aloft as the day progresses. Anticipate period of strongest winds to be in the 21Z-03Z time frame with frequent gusts of 30-35 kts and occasional gusts of 35-40 kts. Anticipate areas of blowing dust causing reduced visibilities below 10SM at times during the period of strongest winds. Could see brief periods of 3SM (most likely over/near the Imperial Valley). Otherwise, thick mid-high clouds (bases AOA FL150) will decrease from west to east after 21Z. ...</p>	120
Area Forecast Discussion	4/16/2018	0938	PDT	San Diego	<p>...This morning...temperatures continue the downward trend and are currently several degrees lower than at this time yesterday. Sfc pressure gradients are continuing to trend stronger onshore and are currently 15.0 mb SAN-TPH and 6.6 mb SAN-TRM. The winds have increased from the southwest with several locations in the mountains and deserts currently reporting wind gusts of 35 mph or more. The highest gust in the last 12 hours is 58 mph at the top of Mount Laguna in San Diego County. It occurred at around 6:50 am. The winds will gradually strengthen and spread into the deserts through this morning. The strongest and most widespread winds are expected this afternoon and evening...weakening late tonight into early Tuesday. In addition to the strong westerly winds, the low pressure system now moving inland along the West Coast will spread cooling inland today....</p>	123

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Area Forecast Discussion	4/16/2018	0958	MST	Phoenix	<p>...Latest satellite imagery shows thickening mid and high clouds advancing out ahead of the upstream shortwave trough. Surface dewpoints are generally in the teens around the area, so no measurable rain is expected. However, the large dewpoint depressions will promote virga and pockets of stronger winds. Windy conditions are expected to become more widespread later in the afternoon as the mixed layer increases and stronger winds aloft are realized at the surface through momentum transfer....</p>	126
Area Forecast Discussion	4/16/2018	1001	PDT	San Diego	<p>Same forecast as 0938am...AVIATION...Desert slopes/Deserts...Westerly winds over the ridges and upper desert slopes 30-50 kt with isolated higher gusts today into tonight. Winds will create strong udfs and wind shear above and near the desert foothills and local vis blo 3sm in dust on the desert floor. BKN clouds aoa FL200 otherwise SCT wave clouds near FL080-120 are possible, mainly over the deserts.</p>	129
Urgent Weather Message	4/16/2018	1205	MST	Phoenix	<p>Parker Valley-Joshua Tree NP West-Joshua Tree NP East-Imperial County Southwest-Salton Sea-Chuckwalla Mountains-Imperial County Southeast-Imperial County West-Imperial Valley-Chiriaco Summit-Palo Verde Valley-Chuckwalla Valley-Including the cities of Parker, Ehrenberg, Cottonwood Visitor, Lost Horse-Keys Village, Mountain Spring, Desert Shores, Imperial Hot Mineral Springs, Winterhaven, Coolidge Springs, Salton City, Winona, Coyote Wells, Ocotillo, Plaster City, El Centro, Calexico, Alamorio, Brawley, Chiriaco Summit, Martinez Lake, Blythe, Palo Verde, Ripley, and Midland.....WIND ADVISORY REMAINS IN EFFECT UNTIL 11 PM MST /11 PM PDT/ THIS EVENING...Generally..All of Southeast California and far western Arizona along the Colorado River...Westerly winds of 25 to 35 mph with gusts in excess of 40 mph...Winds may cause areas of blowing dust...</p>	132
Urgent Weather Message	4/16/2018	1309	PDT	San Diego	<p>...STRONG GUSTY WEST WINDS FOR THE MOUNTAINS AND DESERTS THROUGH LATE TONIGHT.....San Diego County Deserts-Including the city of Borrego Springs...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY.....San Bernardino County Mountains-Riverside County Mountains-San Diego County Mountains-Including the cities of Crestline, Lake Arrowhead, Big Bear City, Big Bear Lake, Running Springs, Wrightwood, Idyllwild-Pine Cove, and Julian...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY...Coachella Valley-Including the city of Cathedral City...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY... See specific wind speeds within notice however generally winds in the desert "Areas of west to northwest winds 20 to 30 mph with gusts to 45 mph." Generally in the San Diego mountains.."Areas of southwest to west winds 30 to 40 mph with gusts to 65 mph. Isolated gusts to 80 mph."</p>	133
Area Forecast Discussion	4/16/2018	1337	PDT	San Diego	<p>This afternoon...the sfc pressure gradients remain onshore with 15.2 mb SAN-TPH and 7.7 mb SAN-TRM. As a result, strong westerly winds continue across the region. Several mountain locations have reported wind gusts of 50 mph or greater today and 2 locations in the last hour. The winds will continue to strengthen, and the strongest and most widespread winds are expected this afternoon and evening...weakening late tonight into early Tuesday. In addition to the strong westerly winds, the low pressure system moving inland along the West Coast is spreading cooler air inland.</p>	137

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Area Forecast Discussion	4/16/2018	1409	MST	Phoenix	<p>...Latest water vapor imagery shows a well-defined vort max near the Bay Area. Meanwhile, thick mid and high clouds out ahead of the upstream shortwave trough have persisted across the Desert Southwest this afternoon. Latest radar imagery shows some weak returns, but with dewpoints generally in the teens, it is unlikely that any precipitation is reaching the ground. Virga is possible with this cloud deck and given the dry sub-cloud environment, isolated pockets of gusty winds/downdrafts will result. The cloud cover has also inhibited insolation and mixing, so the pressure gradient winds have not been realized just yet. However, latest runs of the HRRR continue to indicate that windy conditions will develop, particularly across southeastern California and portions of Pinal County. These are dust prone areas, and there certainly is the potential for patchy blowing dust during the period of peak winds into this evening.</p>	140
Area Forecast Discussion	4/16/2018	1431	MST	Phoenix	<p>UPDATE...Updated Aviation and Fire Weather Discussions...Southeast California/Southwest Arizona including KIPL and KBLH: Strong and gusty westerly winds will be a serious aviation weather concern this afternoon with sustained WSW speeds over 20 kts and gusts as strong as 45 kts. The strongest winds will prevail through about 05z before tapering slightly, and eventually becoming much more typical (12 kts or less) by around 12z tomorrow morning. There will be areas of blowing dust that are likely to reduce visibility down to a few miles, especially for locations further west from the Colorado River. In addition, suspended dust will degrade slantwise visibility.</p>	143
Local Storm Report	4/16/2018	1819	PDT	San Diego	Blowing dust and sand in Riverside County	146
Urgent Weather Message	4/16/2018	1915	MST	Phoenix	<p>... Salton Sea-Imperial County West-Imperial Valley-Including the cities of Desert Shores, Coolidge Springs, Salton City, Winona, Coyote Wells, Ocotillo, Plaster City, El Centro, Calexico, Alamorio, and Brawley ...BLOWING DUST ADVISORY IN EFFECT UNTIL 11 PM PDT THIS EVENING.....WIND ADVISORY REMAINS IN EFFECT UNTIL 11 PM PDT THIS EVENING...The National Weather Service in Phoenix has issued a Blowing Dust Advisory, which is in effect until 11 PM PDT this evening.</p> <p>* AFFECTED AREA...Wind advisory for all of Southeast California and far western Arizona along the Colorado River. Blowing dust advisory for areas around the Salton Sea and West-Imperial Valley.</p> <p>* TIMING...Windy conditions are expected to continue through the late evening.</p> <p>* WINDS...Westerly winds of 25 to 35 mph with gusts in excess of 40 mph.</p> <p>* VISIBILITY...Generally 1 to 5 miles, but occasionally lower than 1 mile in isolated dust channels.</p> <p>* Impacts...Difficulty driving due to crosswinds, especially on roads that run north/south. Winds may cause areas of blowing dust that can reduce visibility. Unsecured objects may become airborne.</p>	147

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Urgent Weather Message	4/16/2018	1915	MST Phoenix	<p>... Parker Valley-Joshua Tree NP West-Joshua Tree NP East-Imperial County Southwest-Chuckwalla Mountains-Imperial County Southeast-Chiriaco Summit-Palo Verde Valley-Chuckwalla Valley-Including the cities of Parker, Ehrenberg, Cottonwood Visitor, Lost Horse-Keys Village, Mountain Spring, Imperial Hot Mineral Springs, Winterhaven, Chiriaco Summit, Martinez Lake, Blythe, Palo Verde, Ripley, and Midland</p> <p>...WIND ADVISORY REMAINS IN EFFECT UNTIL 11 PM MST /11 PM PDT/THIS EVENING...</p> <p>* AFFECTED AREA...All of Southeast California and far western Arizona along the Colorado River.</p> <p>* TIMING...Winds will increase this afternoon. Windy conditions are expected through the late evening.</p> <p>* WINDS...Westerly winds of 25 to 35 mph with gusts in excess of 40 mph.</p> <p>* IMPACTS...Difficulty driving due to crosswinds, especially on roads that run north/south. Winds may cause areas of blowing dust that can reduce visibility. Unsecured objects may become airborne.</p>	148
Local Storm Report	4/16/2018	1933	PDT San Diego	<p>Workers being evacuated from Coachella Festival due to strong winds and blowing dust...</p>	149
Urgent Weather Message	4/16/2018	2020	PDT San Diego	<p>...STRONG GUSTY WEST WINDS FOR THE MOUNTAINS AND DESERTS THROUGH LATE TONIGHT.....San Diego County Deserts-Including the city of Borrego Springs...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY.....San Bernardino County Mountains-Riverside County Mountains-San Diego County Mountains-Including the cities of Crestline, Lake Arrowhead, Big Bear City, Big Bear Lake, Running Springs, Wrightwood, Idyllwild-Pine Cove, and Julian...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY...Coachella Valley-Including the city of Cathedral City...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY... See specific wind speeds within notice however generally winds in the desert "West to northwest winds 20 to 30 mph with gusts to 65 mph." Generally in the San Diego mountains.."Areas of southwest to west winds 30 to 40 mph with gusts to 70 mph."</p>	150
Area Forecast Discussion	4/16/2018	2045	MST Phoenix	<p>...A rather deep/cold upper low (for Mid-April) and associated sfc cold front that is now moving across SE CA are helping to mix strong winds aloft down to the sfc this evening across that region, with wind gusts as high as 50 mph being reported at this hour. These strong winds are also producing some blowing dust at this time across the Imperial Valley, with visibilities briefly as low as 1/2 mile being reported. On the other hand, winds across South-Central have been lighter then was expected, likely due to thick mid/high cloud cover inhibiting heating/mixing across the region this afternoon. ...</p>	153
Area Forecast Discussion	4/16/2018	2145	PDT San Diego	<p>The winds blew hard in the mountains and the deserts this afternoon and evening with a peak gust of 70 mph at Volcan Mountain. Mountain waves crashed down the eastern mountains slopes and into the deserts floor of the Coachella Valley where northwest winds gusted to 58 mph at Coachella and 56 mph at Thermal. Blowing dust and sand reduced vis to less than a mile at Thermal this evening. Also, a long duration rotor set up over the Palm Springs Airport with east winds of 15-30 mph between 5 PM and 9 PM. The winds will remain strong through late evening, then gradually subside after midnight.</p>	156

TYPE	DATE	TIME	AGENCY	DESCRIPTION	PAGE	
Urgent Weather Message	4/16/2018	2253	MST	Phoenix	<p>... Parker Valley-Joshua Tree NP West-Joshua Tree NP East-Imperial County Southwest-Chuckwalla Mountains-Imperial County Southeast-Chiriaco Summit-Palo Verde Valley-Chuckwalla Valley-Including the cities of Parker, Ehrenberg, Cottonwood Visitor, Lost Horse-Keys Village, Mountain Spring, Imperial Hot Mineral Springs, Winterhaven, Chiriaco Summit, Martinez Lake, Blythe, Palo Verde, Ripley, and Midland</p> <p>.....WIND ADVISORY IS CANCELLED...</p>	158
Urgent Weather Message	4/16/2018	2253	MST	Phoenix	<p>... Salton Sea-Imperial County West-Imperial Valley-Including the cities of Desert Shores, Coolidge Springs, Salton City, Winona, Coyote Wells, Ocotillo, Plaster City, El Centro, Calexico, Alamorio, and Brawley</p> <p>...BLOWING DUST ADVISORY NOW IN EFFECT UNTIL 1 AM PDT TUESDAY.....WIND ADVISORY NOW IN EFFECT UNTIL 1 AM PDT TUESDAY...</p> <p>* AFFECTED AREA...Wind advisory for all of Southeast California and far western Arizona along the Colorado River. Blowing dust advisory for areas around the Salton Sea and West-Imperial Valley.</p> <p>* TIMING...Windy conditions are expected to continue through the late evening.</p> <p>* WINDS...Westerly winds of 25 to 35 mph with gusts in excess of 40 mph.</p> <p>* VISIBILITY...Generally 1 to 5 miles, but occasionally lower than 1 mile in isolated dust channels.</p> <p>* Impacts...Difficulty driving due to crosswinds, especially on roads that run north/south. Winds may cause areas of blowing dust that can reduce visibility. Unsecured objects may become airborne.</p>	159
Urgent Weather Message	4/17/2018	0054	MST	Phoenix	<p>...Salton Sea-Imperial County West-Imperial Valley-Including the cities of Desert Shores, Coolidge Springs, Salton City, Winona, Coyote Wells, Ocotillo, Plaster City, El Centro, Calexico, Alamorio, and Brawley</p> <p>...BLOWING DUST ADVISORY WILL EXPIRE AT 1 AM PDT EARLY THIS MORNING.....WIND ADVISORY WILL EXPIRE AT 1 AM PDT EARLY THIS MORNING...</p> <p>Wind gusts have weakened over the past hour over much of southeast California. Locally gusty winds to 30 mph and patchy blowing dust will remain possible this morning, but are no longer expected to be widespread. Therefore, the Wind Advisory and Blowing Dust Advisory will be allowed to expire.</p>	161
Urgent Weather Message	4/17/2018	0251	PDT	San Diego	<p>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-</p> <p>...HIGH WIND WARNING IS CANCELLED..</p>	162
Area Forecast Discussion	4/17/2018	0251	MST	Phoenix	<p>Morning satellite imagery shows the primary shortwave trough over the Great Basin, and beginning to accelerate eastward. The western edge of mid-level cloudiness is finally exiting south-central Arizona, with drier air aloft becoming evident across the region. The low-level cold front is making its way across the lower deserts of south-central Arizona as of 09Z. Wind speeds remain breezy across southeast California and continue to produce pockets of blowing dust, but have otherwise weakened elsewhere.</p>	165

TYPE	DATE	TIME	AGENCY	DESCRIPTION	PAGE
Public Information Statement	4/17/2018	0459	PDT San Diego	...Wind Reports.. Select sites see notice for additional sites and information..... San Diego County Mountains... Volcan Mountain 71 MPH (0920 PM) 04/16 Harrison Park 69 MPH (1110 PM) 04/16 Boulevard (1 W) 60 MPH (1010 PM) 04/16 Boulevard (5 NW) 49 MPH (1020 PM) 04/16 Warner Springs (4 SE) 40 MPH (0100 AM) 04/17 Boulevard (8 NW) 37 MPH (1050 PM) 04/16 Warner Springs (4 SW) 36 MPH (0330 PM) 04/16 ... San Diego County Deserts... Borrego Springs (7 SE) 55 MPH (0904 PM) 04/16 Borrego Springs (9 S) 47 MPH 0700 PM 04/16 In Ko Pah 44 MPH (0700 PM) 04/16 Borrego Springs (2 E) 43 MPH (0130 PM) 04/16 Borrego Springs (3 W) 39 MPH (0330 PM) 04/16 Ocotillo Wells (1 SW) 38 MPH (0702 PM) 04/16 Coachella Valley... Palm Desert (5 S) 61 MPH (1130 PM) 04/16 Coachella 58 MPH (0710 PM) 04/16 Thermal Airport 56 MPH (0643 PM) 04/16 Thousand Palms (5 NE) 45 MPH (0843 PM) 04/16 Thousand Palms 41 MPH (1200 AM) 04/17 Indio Fire Station 40 MPH (0417 PM) 04/16 Cathedral City (1 SW) 39 MPH (0352 PM) 04/16 Palm Springs Airport 35 MPH (0338 AM) 04/17	166
Preliminary Local Storm Report	4/17/2018	0840	PDT San Diego	Wind gusts speeds at Ranchita	169
Preliminary Local Storm Report	4/17/2018	0841	PDT San Diego	Wind gusts speeds at Coachella	171
Preliminary Local Storm Report	4/17/2018	0846	PDT San Diego	Wind gusts speeds at Borrego Springs and other locations in the San Diego County Mountains and Deserts...	172
Preliminary Local Storm Report	4/17/2018	0847	PDT San Diego	Wind gusts speeds at Thousand Palms...	175

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098
FXUS65 KPSR 141008
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
308 AM MST Sat Apr 14 2018

.SYNOPSIS...

Expect a warming trend this weekend with highs climbing well into the 80s today and into the low 90s on Sunday. Two weather systems will move through the region next week leading to large changes in winds and temperatures from one day to the next throughout the workweek. Precipitation chances will be very slight and limited mainly to higher terrain areas of Arizona Thursday night and Friday.

&&

.DISCUSSION...

The low pressure system that brought us all the wind and dust is bringing widespread thunderstorm activity to central portions of the CONUS. Over our region, ridging is building in and surface high pressure, centered to our north, is strengthening. Thus north and northeasterly breeziness will continue into the morning before the gradient quickly weakens and takes on an east-west orientation in the afternoon. With the building high pressure, we will have a warming trend this weekend. Anticipate highs on the lower deserts to climb into the mid 80s today and low 90s Sunday. If thick high clouds arrive a little sooner than anticipated on Sunday, we may not reach those temps.

There will be two systems to affect us next week and both will be characteristic of April events where we get wind and cooler temperatures but no real rain potential. The first one brings widespread windy conditions on Monday. At this point, winds for south-central AZ (including Phoenix) aren't looking quite as strong as what we had on Thursday. But other portions of our forecast area, namely far southeast CA, will get pretty windy. That means blowing dust and sand there but also anticipate some of that reaching south-central AZ. As it is, expect there will be locally generated patchy blowing dust - especially over Pinal County. Cool advection starts in southeast CA Monday afternoon and overspreads much of AZ Monday night leading to much cooler highs by Tuesday (upper 70s). Temperatures rebound Wednesday into Thursday as transient high pressure passes through.

The second system generally follows a similar pattern as the preceding one for the Thursday-Friday time frame. However, NAEFS and calibrated GEFS guidance indicate that winds won't be as strong over a wide area as with the early week system. This is

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

reflected in the operational GFS which has the arrival of stronger winds aloft happening when there will be less mixing followed by a faster departure of the system. However, the ECMWF has a little bit faster arrival but slower departure. At any rate, there will still be notable winds. Ensemble guidance doesn't show as much of a drop off in temperature as with the first system - highs in the low to mid 80s.

&&

.AVIATION...

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

The low pressure system that brought windy conditions to the area Thursday has been slow to exit the Rocky Mountains. High pressure in its wake will build across the Great Basin tonight, resulting in a decrease in wind. The breezy conditions from earlier this evening will continue to subside overnight, dropping below 12 kt around 09z. Winds will also gradually veer from northwesterly to northeasterly through Saturday morning. Thereafter, winds will generally become light and variable before the diurnal westerly flow develops during the afternoon.

Southeast California/Southwest Arizona including KIPL and KBLH:

No aviation weather impacts expected. Winds will retain a north and westerly component at KIPL/KBLH, while speeds will generally remain below 10 kt.

Aviation Discussion not updated for amended TAFs.

&&

.FIRE WEATHER...

Saturday through Wednesday...

High pressure builds over the Desert SW for Saturday and Sunday bringing light winds but increasing temperatures and continued low humidity values. Another dry weather system will move in on Monday bringing more wind to our entire area. At this point an elevated fire weather threat will most certainly exist on Monday, especially in SE California, but it is not clear if we will hit critical fire weather thresholds. Cooler weather and light winds will move in behind this system on Tuesday although conditions will still remain very dry.

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.SPOTTER INFORMATION STATEMENT...

Spotter activation will not be needed this week.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...None.

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458
FXUS66 KSGX 141022
AFDSGX

Area Forecast Discussion
National Weather Service San Diego CA
322 AM PDT Sat Apr 14 2018

.SYNOPSIS...

Continued dry and very warm today with weakening Santa Ana winds this morning. Onshore flow will return on Sunday and strengthen for Sunday night through Monday night as a low pressure system moves inland along the West Coast. This will spread cooling inland and bring periods of strong gusty southwest to west winds in the mountains and deserts for Sunday night through Monday evening. There is also a slight chance of light showers along and west of the mountains for late Sunday night through Monday night. Another low pressure system moving inland through the western states on Wednesday night and Thursday will bring another round of stronger and gusty west winds in the mountains and deserts for Thursday into Thursday evening along with a slight chance of light showers...mainly near the mountains.

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

High pressure aloft over California will weaken and move inland as a low pressure system moves inland along the West Coast for Sunday night through Monday night. Weakening offshore flow will become weakly onshore Sunday...then strongly onshore for Sunday night through Monday evening. Gusty northeast to east winds near the coastal foothills will weaken this morning. Strengthening onshore flow will bring periods of strong gusty southwest to west winds to the mountains and deserts for Sunday night through Monday evening.

Cooling will develop near the coast on Sunday...then spread inland on Monday and Tuesday. There are small chances for light showers at times along and west of the mountains from late Sunday night through Monday night.

Onshore flow will weaken for Tuesday and Wednesday with a warming trend. Another low pressure system moving inland through California on Wednesday night and Thursday will bring stronger onshore flow with cooling...stronger and gusty west winds in the mountains and deserts...and small chances for light showers...mainly near the mountains. Dry with warming for Friday and Saturday as onshore flow weakens.

&&

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

.AVIATION...

141030Z...P6SM with unrestricted VIS will continue through tonight. In the west mountain slopes/foothills through 19Z today, areas of E to NE surface winds 15-25 KT with local gusts to 35 KT will occur.

&&

.MARINE...

Another trough of low pressure will bring strong winds again Monday, with gusts up to 30 knots possible. Current guidance indicates that combined seas of around 8 feet are likely in the outer waters Monday but conditions could still be rough.

&&

.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...NONE.

PZ...NONE.

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PUBLIC...17

AVIATION/MARINE...Maxwell

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190
FXUS66 KSGX 141604
AFDSGX

Area Forecast Discussion
National Weather Service San Diego CA
904 AM PDT Sat Apr 14 2018

.SYNOPSIS...

Continued dry and very warm today with weakening Santa Ana winds. Onshore flow will return on Sunday and strengthen Sunday night through Monday night. This will spread cooling inland and bring periods of strong gusty southwest to west winds in the mountains and deserts for Sunday night through Monday evening. There is also a slight chance of light showers along and west of the mountains late Sunday night through Monday night. Fair weather returns for Wednesday with coastal low clouds and fog Tuesday night into Wednesday morning. Another round of stronger and gusty west winds in the mountains and deserts is expected for late Thursday into Friday, with a slight chance of light showers...mainly near the mountains.

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

Sunny skies this morning with temps west of the mtns running several degrees higher than at this time yesterday. Sfc pressure gradients remain offshore but are significantly weaker than yesterday, with -4.5 mb SAN-TPH and -0.6 mb SAN-TRM. The current winds reflect this trend with the strongest gust in the last hour being 38 mph near Campo in San Diego County.

The high pressure aloft over California will maintain warm and dry conditions through Sunday, even as it gradually weakens and moves east ahead of a low pressure trough approaching from the northwest. As a result, temps west of the mtns will decrease on Sunday as the flow turns onshore. Humidities near the coast will also begin to recover as the marine air spreads inland. However, temps in the the lower deserts will be 5 to 10 degrees above seasonal averages with low humidities.

As the low pressure trough moves in, strengthening onshore flow will bring periods of strong, gusty southwest to west winds to the mountains and deserts for Sunday night through Monday night. Wind gusts of 45 to 55 mph will be possible in these areas, with gusts of 60 mph possible at some locations. We can also expect a deepening marine layer with low clouds and fog spreading inland to the coastal mtn slopes by early Monday morning, and light precip will be possible from the coastal mtn slopes westward from early

April 16, 2018 Exceptional Event, Imperial County

Monday morning through Monday night.

Onshore flow will weaken for Tuesday and Wednesday, with a warming trend as the trough moves east and weak high pressure ridging moves in from the west.

Another low pressure system moving inland through California Wednesday night and Thursday will bring stronger onshore flow with increasing low clouds, cooling, stronger and gusty west winds in the mountains and deserts, and small chances for light showers...mainly near the mountains. At this point there is still significant uncertainty due to model differences in the timing and trajectory of the low.

Dry with warming for Friday and Saturday under a weak high pressure ridge with weakening onshore flow.

&&

.AVIATION...

141630Z...Mostly clear with unrestricted VIS will continue through Sunday morning. Through 14/19Z today in the western slopes of the mountains and foothills areas of E to NE surface winds 15-25 KT with local gusts to 35 KT will occur. Risk of low clouds at KSAN today through Sunday morning is near zero, so confidence in having no low clouds as forecast in the TAF is very high.

&&

.MARINE...

Another trough of low pressure will bring strong winds again Monday, with gusts up to 30 knots possible. Current guidance indicates that combined seas of around 8 feet are likely in the outer waters Monday but conditions could still be rough.

&&

.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...NONE.

PZ...NONE.

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PUBLIC...PG

AVIATION/MARINE...Small

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763

WWUS76 KSGX 142018

NPWSGX

URGENT - WEATHER MESSAGE

National Weather Service San Diego CA

118 PM PDT Sat Apr 14 2018

...STRONG SOUTHWEST TO WEST WINDS FOR THE MOUNTAINS AND DESERTS
FROM SUNDAY NIGHT THROUGH MONDAY NIGHT...

CAZ055-056-058-060>062-065-150500-

/O.NEW.KSGX.HW.A.0003.180416T0700Z-180417T1200Z/

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 Big Bear City, Julian, Hesperia,

Apple Valley, Cathedral City, Coachella, and Desert Hot Springs

118 PM PDT Sat Apr 14 2018

...HIGH WIND WATCH IN EFFECT FROM LATE SUNDAY NIGHT THROUGH LATE
MONDAY NIGHT...

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

* Winds...Southwest to west winds 45 to 50 mph gusting to 60 mph.
local gusts to 70 mph.

* Timing...Beginning Sunday night, with the strongest winds Monday
afternoon. Winds will weaken late Monday night.

* Location...Near mountain ridge tops and along desert mountain
slopes into adjacent desert areas.

* Impacts...The winds will make driving difficult...especially
for motorists with high profile vehicles. This will impact
portions of Interstate 10 through the San Gorgonio Pass and
the Coachella Vally...and Interstate 8 through the San Diego
County mountains. In the deserts...areas of blowing dust and
sand will reduce visibility at times. Watch for broken tree
limbs and other debris.

* Outlook...Benign winds for Tuesday and Wednesday.

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

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182
FXUS65 KPSR 142120
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
220 PM MST Sat Apr 14 2018

.SYNOPSIS...

Temperatures will continue to warm Sunday with many lower desert communities reaching back into the 90s. Two vigorous weather systems will move through the region next week leading to large fluctuations in winds and temperatures from one day to the next. Gusty winds, areas of blowing dust, and heightened fire weather concerns will exist Monday. Precipitation chances will be minimal and limited to higher terrain areas of northern and eastern Arizona Thursday night and Friday.

&&

.DISCUSSION...

Afternoon WV imagery shows the deep midtropospheric low which forced the locally breezy conditions the past several days has lifted into the Upper Midwest with deep subsidence and perfectly clear skies now locked over the SW Conus. Objective analysis and 12Z regional sounding data indicates robust 5-9dm H5 height rises which has resulted in afternoon highs some 5F-10F warmer than Friday. Additional modest height rises will spread into the forecast area Sunday with afternoon highs breaching the 90F threshold for many lower elevation areas. This trend will be short lived as the next negative height anomaly and set of vorticity centers propagate into the central California coast in a progressive flow regime.

While likely not quite as potent as the system earlier in the week, a vigorous jet core will translate a nice vorticity center and height falls into SE California and northern Arizona Monday afternoon. While this system is not entirely unusual for April, the midtropospheric jet core extending from near SAN-FLG will be very robust falling into the 99th percentile; and a solid branch of 50kt H7 winds will round the trough base and eject along and behind the theta-e frontal boundary. There may be a couple limiting factors relating to the expanse of stronger winds, 1) the most pronounced height falls will be concentrated towards southern NV/northern AZ and 2) thick mid/high clouds are very likely throughout the day potentially reducing mixing heights and ability to fully tap the highest momentum winds.

Regardless, models are in good agreement depicting a tightening pressure gradient along and ahead of the front Monday afternoon; and favorable timing for downsloping winds and mountain rotors through SE California. Gusts above 40-45 mph (solid advisory) appear inevitable for locations along and west of the Colorado River with

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

the attendant risk of dense blowing dust in the usual locations. Further east into central Arizona and more removed from the best height falls, weaker H8-H7 winds will likely keep gusts in the 30-35 mph range; however along with humidity values falling well into the single digits, fire weather concerns will be heightened once again necessitating a watch. The most susceptible locations near open agricultural fields or barren, disturbed open desert will probably see another round of blowing dust though likely not as extensive or expansive as earlier this week.

With fropa and H5 heights falling near 572dm, temperatures Tuesday will descend back into the 70s as the pressure gradient weakens and conditions become more quiescent. Temperatures will rebound Wednesday into Thursday as transient height rises spread into the region. But in this progressive pattern, even this warming trend will be exceptionally brief as the next wave rapidly begins a deepening phase heading into California.

This second system will generally follow a similar pattern as the preceding two into the Thursday-Friday time frame. However, NAEFS and calibrated GEFS guidance indicate that winds won't be as strong over a wide area as with the early week system. This is reflected in some operational models having the arrival of stronger winds aloft during a non-optimal mixing time, followed by a faster departure of the system. However, there is large spread among ensemble members regarding timing and position which may be the reason for the weaker winds in the ensemble mean guidance. Conceptually looking at the wave depth and structure, it would not be surprising to see conditions Thursday afternoon very similar to earlier this week and this upcoming Monday (i.e. breezy, blowing dust, and fire weather concerns).

&&

.AVIATION...

South-Central Arizona including KPHX, KIWA, and SDL; and Southeast California/Southwest Arizona including KIPL and KBLH:

There are no major aviation weather concerns through tonight across the region. Fairly light wind speeds will prevail while favoring typical diurnal directional patterns.

Aviation Discussion not updated for amended TAFs.

&&

.FIRE WEATHER...

Tuesday through Saturday:

Cooler temperatures will sweep into the districts Tuesday behind a weather disturbance, however rebound back to above normal Wednesday awaiting the next weather system later in the week. Despite the cooler weather, very dry air will ensure afternoon humidity values will continue to fall below 10%. Overnight recovery will only be

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

poor to fair. Winds will be very typical for mid-spring Tuesday and Wednesday, though will increase substantially Thursday with critical conditions possible again Thursday afternoon. More tranquil weather should return to the districts Friday and Saturday.

&&

.SPOTTER INFORMATION STATEMENT...

Spotters are encouraged to report dense blowing dust next week.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...Fire Weather Watch from Monday morning through Monday evening
for AZZ131>133.

CA...Fire Weather Watch from Monday morning through Monday evening
for CAZ231.

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DISCUSSION...MO/AJ

AVIATION...Deemer

FIRE WEATHER...MO

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FXUS66 KSGX 150353
AFDSGX

Area Forecast Discussion
National Weather Service San Diego CA
853 PM PDT Sat Apr 14 2018

.SYNOPSIS...

A cooling trend will begin on Sunday for coastal and inland valleys. Ahead of a cold front increasing onshore flow will develop Sunday afternoon with development of marine low clouds. A fast moving cold front will increase winds in the mountains and deserts Sunday evening and the winds will continue and be locally strong Monday and into Monday night. Along with clouds there will be areas of light rain along the coastal and inland valley regions. The cold front will be well east of Southern California on Tuesday and this will lead to warmer and dry conditions under weak offshore flow. Another fast moving cold front is predicted for Thursday into early Friday, bringing more clouds, patchy light rain and strong winds to the mountains and deserts. Next Saturday looks to bring significant warming and a period of offshore flow.

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

Dry air over the region resulted in a large spread in morning low temperatures with readings from upper 30s in colder valleys and lower 60s in thermal belts and wind exposed areas. Temps rapidly rebounded and mixed out in full sun and 16-18c 850mb air mass potential to widespread 80s from immediate coastal cities to upper 80s across most coastal and inland valley cities. Hot spots reached 90F at Chino, Yorba Linda, Miramar, Palm Desert, Lake Elsinore...and many areas just shy hitting 88-89F. Nations hot spot was Thermal at 92F (see LAXRTPSGX from latest product list on webpage).

Skies are clear for tonight but we will see increasing low level moisture on the coast and high level cirrus late tonight and especially on Sunday. The coast and into inland valleys should have 5 to 8 degrees cooler as onshore flow increases and marine layer builds over 500 feet. Low clouds should bank up to the coast by late Sunday afternoon or early evening. For the protected lower deserts models still progg 18-20C at 850 mb so as hot or even a degree or 2 hotter.

Onshore flow becomes moderate Sunday night and on Monday the mid level flow peaks to 60 knots (700 mb) of southwest flow with a sharp baroclinic zone. The wind shift to northwest does not occur

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

until late Monday so we could see the strongest winds in the passes and downslope areas on Monday and across the Coachella Valley late Monday afternoon and Monday evening and only gradually decreasing into Monday night. The High Wind Watch looks justified given timing and strength. Local areas of damage due to rotoring and downsloping winds. There is a sharp inversion at 830-860 mb where we will see breaking wave potential and momentum transfer as see on Bufkit model soundings.

Weak but notable offshore flow kicks in on Tuesday and into Tuesday night. This leads to good warming on Wednesday. Warming is not significant though as another fast moving short wave trough is still expected to increase onshore flow Wednesday night and then race through SoCal on Thursday. This system takes a slightly different track but still showing 55 knots at 700 mb in westerly flow. This will bring strong winds to the mountains and may be more impact for San Diego Deserts on Thursday. There is a brief few hours of low level moisture surge as well. Pretty sharp agreement on timing and strength on just the GFS and ECMWF. We jump back into weak offshore flow and significant warming for Friday into Saturday.

&&

.AVIATION...

150304Z...Mostly clear with unrestricted VIS through much of Sunday. After 22Z Sun...SCT Clouds AOB 1500 FT may begin to impact coastal areas.

&&

.MARINE...

No marine issues through Sunday. Northwest winds will be increasing over the coastal waters on Monday. Winds of 20-25 KT with gusts to 30 knots are possible in the afternoon through Monday night, decreasing Tuesday morning. Current guidance indicates that combined seas of around 10 feet will create hazardous small craft conditions during this period.

&&

.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 late Sunday night through late Monday 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.

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WWUS76 KSGX 151011

NPWSGX

URGENT - WEATHER MESSAGE

National Weather Service San Diego CA

311 AM PDT Sun Apr 15 2018

...STRONG SOUTHWEST TO WEST WINDS FOR THE MOUNTAINS AND DESERTS
FOR LATE TONIGHT INTO MONDAY NIGHT...

CAZ055-056-058-060>062-065-152130-

/O.CON.KSGX.HW.A.0003.180416T0700Z-180417T1200Z/

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 Crestline, Lake Arrowhead, Big Bear City,

Big Bear Lake, Running Springs, Wrightwood, Idyllwild-Pine Cove,

Julian, Victorville, Hesperia, Apple Valley, Indio, Palm Springs,

Cathedral City, Palm Desert, Palm Desert Country, La Quinta,

Coachella, Borrego Springs, Banning, and Desert Hot Springs

311 AM PDT Sun Apr 15 2018

...HIGH WIND WATCH REMAINS IN EFFECT FROM LATE TONIGHT THROUGH
LATE MONDAY NIGHT...

* Winds...Southwest to west winds 35 to 45 mph with gusts to 65
mph. Local gusts to 75 mph.

* Timing...Winds will develop late this afternoon and evening and
strengthen tonight. The strongest and most widespread winds are
expected for Monday afternoon and evening. The winds will
diminish late Monday night.

* Location...Near mountain ridge tops and along desert mountain
slopes into adjacent desert areas.

* Impacts...The winds will make driving difficult...especially for
motorists with high profile vehicles. This will impact portions
of Interstate 10 through the San Gorgonio Pass and the Coachella
Vally...Interstate 8 through the San Diego County mountains...
and Interstate 15 across desert areas north of the Cajon Pass.
In the deserts...areas of blowing dust and sand will reduce
visibility at times. Watch for broken tree limbs and other
debris.

* Outlook...Another round of strong winds is expected for
Wednesday night into Thursday night.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

April 16, 2018 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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682
FXUS65 KPSR 151033
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
333 AM MST Sun Apr 15 2018

.SYNOPSIS...

Expect additional warming today with highs on the lower deserts reaching the low 90s. Two vigorous weather systems will move through the western states this week leading to large fluctuations in winds and temperatures from one day to the next. Gusty winds, areas of blowing dust, and heightened fire weather concerns will exist Monday. Expect much cooler temperatures Tuesday. Precipitation chances will be minimal and limited to higher terrain areas of northern and eastern Arizona Thursday night and Friday.

&&

.DISCUSSION...

Today...

Water vapor imagery over western North America and adjacent northeast Pacific shows a ridge axis over the interior West with a large low pressure system moving into western Canada and the Pacific Northwest. This system is pulling some subtropical moisture northward but it is mostly in the upper half of the troposphere. As the low pressure system digs southeastward today, it will displace the ridge eastward. However, plenty of warm air left in the lower levels for some additional warming today. Sunny skies will give way to increasing high clouds later this afternoon.

Monday and Tuesday...

Winds pick up on Monday with the approach of the upper trough and associated cold front. The front will pass through southeast California Monday afternoon and across Arizona Monday night. Strong winds can be expected over southeast California and southwest Arizona during that time with breezy to windy conditions over south-central Arizona. One limiting factor to the wind speeds for the south-central Arizona deserts will be reduced mixing due to thick mid-high clouds in the afternoon. However, if the clouds depart by mid afternoon, breeziness will be stronger. Of note, both the GFS and NAM soundings indicate that mixing won't really be reduced - perhaps offset by southerly winds/warm advection. This is also why we are still anticipating highs to still get into the mid-upper 80s on Monday in metro Phoenix. With the enhanced winds and dry air, held on to the Fire Weather Watch. Considered adding our southeast CA zones to the Watch, but not looking like the 6 hour duration requirement will be met. Winds also mean

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

blowing dust concerns. Anticipate winds will not be quite as strong as on Thursday (especially over metro Phoenix) and thus dust problems not quite as bad but still enough to be of concern. With the cool advection, expect Tuesday's highs to be much cooler (mid to upper 70s over the lower deserts) even though skies will be clear.

Wednesday through Saturday...

A passing ridge enables a rebound of temperatures on Wednesday with highs climbing well into the 80s on the lower deserts. The next system to affect our forecast area brings breezy conditions to southeast California beginning later Wednesday afternoon. Breezy to windy conditions overspread the forecast area by Thursday afternoon. At this time, not anticipating widespread blowing dust. While the upper low digs further south than the preceding one, this system is not as cold. Thus, the cool advection in the lower levels will be much weaker. In fact, models depict it fizzling out over our western areas with lower level warming developing upstream Thursday night. This is due to the upstream ridge being stronger and in turn subsidence warming. The upshot is that there will be little change in highs over most of our Arizona zones Wednesday through Friday. Cooling will be mainly near and west of the Lower Colorado River Valley Thursday with some warming there Friday. Anticipate additional warming across the forecast area on Saturday as short wave ridging traverses the region.

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.AVIATION...

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

With no aviation concerns, winds will be light to light and variable through midday tomorrow and favor normal diurnal directions. Expect light to moderate westerly winds to develop early to mid afternoon tomorrow near 6-10kt. Skies will remain clear for tonight through tomorrow morning and then become partly to mostly cloudy tomorrow afternoon and evening with SCT-BKN high clouds moving in near 20-25kft.

Southeast California/Southwest Arizona including KIPL and KBLH:

Expect light to light and variable winds tonight through tomorrow morning. Then breezy to occasionally very breezy southwesterly to westerly winds will gradually develop from midday through late afternoon at 10-14 gusting to 18-23kt. Skies will remain clear through tomorrow morning and then become partly to mostly cloudy tomorrow afternoon and evening with SCT-BKN high clouds near 20-25kft.

Aviation Discussion not updated for amended TAFs.

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April 16, 2018 Exceptional Event, Imperial County**Appendix A**

.FIRE WEATHER...

Tuesday through Saturday:

Cooler temperatures will sweep into the districts Tuesday behind a weather disturbance, however rebound back to above normal Wednesday awaiting the next weather system later in the week. Despite the cooler weather, very dry air will ensure afternoon humidity values will continue to fall below 10%. Overnight recovery will only be poor to fair. Winds will be very typical for mid-spring Tuesday and Wednesday, though will increase substantially Thursday with critical conditions possible again Thursday afternoon. More tranquil weather should return to the districts Friday and Saturday.

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.SPOTTER INFORMATION STATEMENT...

Spotters are encouraged to report dense blowing dust next week.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...Fire Weather Watch from Monday morning through Monday evening
for AZZ131>133.

CA...Fire Weather Watch from Monday morning through Monday evening
for CAZ231.

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DISCUSSION...AJ

AVIATION...Sawtelle

FIRE WEATHER...MO

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375
FXUS66 KSGX 151044
AFDSGX

Area Forecast Discussion
National Weather Service San Diego CA
344 AM PDT Sun Apr 15 2018

.SYNOPSIS...

Onshore flow will return today with a cooling trend for coastal and valley areas. A low pressure system moving inland along the West Coast will bring much stronger onshore flow for tonight into Monday night with cooling...strong gusty southwest to west winds in the mountains and deserts...a return and deepening of the marine layer with coastal low clouds extending on to the coastal mountain slopes for Monday into Monday night...with a slight chance of light showers near the mountains for late Monday into Monday night. Weaker winds with warming for Tuesday into Wednesday. Another low pressure system moving inland through California on Thursday will bring cooling with strong gusty winds for the mountains and deserts for Wednesday night into Thursday night. Dry with warming and weaker winds for Friday and Saturday.

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

High clouds will begin to spread across the area today in advance of a low pressure system off the West Coast. Onshore flow will return today with cooling spreading into coastal and valley areas.

That low pressure system will move inland along the West Coast tonight and Monday. It will bring much stronger onshore flow across Southern California for tonight into Monday night. Southwest to west winds will develop in the mountains and deserts for late this afternoon and evening...strengthening tonight...and becoming more widespread Monday. The strongest and most widespread winds are expected for Monday afternoon and evening. The winds are expected to diminish from north to south late Monday night.

Low clouds are expected to return near the coast during the late afternoon. The marine layer will deepen rapidly for late tonight into Monday. The low clouds will spread into the valleys during the late evening and late tonight and onto the coastal mountain slopes for early Monday. There is also a slight chance of light showers...mainly near the mountains...for late Monday into Monday night.

Greater cooling is expected for Monday and Monday night with warming returning to coastal and valley areas on Tuesday...and

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

for the mountains and deserts Wednesday.

Another low pressure system moving inland through California on Thursday will bring cooling and another round of strong gusty west winds for the mountains and deserts for Wednesday night into Thursday night. There is also a slight chance of light showers near the mountains for Thursday.

Dry with a warming trend and weaker winds for Friday and Saturday... though with some continuing differences with the global models with a weak trough of low pressure that may be near the West Coast around next Sunday.

&&

.AVIATION...

151015Z...Mostly clear skies with unrestricted vis will prevail most of today, except SCT-locally BKN clouds with bases 1000-1500 ft MSL could develop after 21Z along the immediate coast. BKN-OVC clouds will likely spread 25-35 miles inland from the coast tonight with bases 1200-2000 ft MSL and tops to 2500 ft MSL with areas of higher terrain obscured.

&&

.MARINE...

West-northwest winds will increase over the coastal waters Monday. Winds of 20-25 KT with gusts around 30 knots are possible Monday afternoon through Monday night, decreasing gradually Tuesday. This and 8-10 foot combined seas will result in hazardous conditions to small craft. Similar winds and seas are possible Thursday into Friday.

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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 Watch from late tonight through late Monday 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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762
FXUS65 KPSR 151140
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
440 AM MST Sun Apr 15 2018

.UPDATE...Updated aviation and fire weather discussions.

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.SYNOPSIS...

Expect additional warming today with highs on the lower deserts reaching the low 90s. Two vigorous weather systems will move through the western states this week leading to large fluctuations in winds and temperatures from one day to the next. Gusty winds, areas of blowing dust, and heightened fire weather concerns will exist Monday. Expect much cooler temperatures Tuesday. Precipitation chances will be minimal and limited to higher terrain areas of northern and eastern Arizona Thursday night and Friday.

&&

.DISCUSSION...

Today...

Water vapor imagery over western North America and adjacent northeast Pacific shows a ridge axis over the interior West with a large low pressure system moving into western Canada and the Pacific Northwest. This system is pulling some subtropical moisture northward but it is mostly in the upper half of the troposphere. As the low pressure system digs southeastward today, it will displace the ridge eastward. However, plenty of warm air left in the lower levels for some additional warming today. Sunny skies will give way to increasing high clouds later this afternoon.

Monday and Tuesday...

Winds pick up on Monday with the approach of the upper trough and associated cold front. The front will pass through southeast California Monday afternoon and across Arizona Monday night. Strong winds can be expected over southeast California and southwest Arizona during that time with breezy to windy conditions over south-central Arizona. One limiting factor to the wind speeds for the south-central Arizona deserts will be reduced mixing due to thick mid-high clouds in the afternoon. However, if the clouds depart by mid afternoon, breeziness will be stronger. Of note, both the GFS and NAM soundings indicate that mixing won't really be reduced - perhaps offset by southerly winds/warm advection. This is also why we are still anticipating highs to still get into

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

the mid-upper 80s on Monday in metro Phoenix. With the enhanced winds and dry air, held on to the Fire Weather Watch. Considered adding our southeast CA zones to the Watch, but not looking like the 6 hour duration requirement will be met. Winds also mean blowing dust concerns. Anticipate winds will not be quite as strong as on Thursday (especially over metro Phoenix) and thus dust problems not quite as bad but still enough to be of concern. With the cool advection, expect Tuesday's highs to be much cooler (mid to upper 70s over the lower deserts) even though skies will be clear.

Wednesday through Saturday...

A passing ridge enables a rebound of temperatures on Wednesday with highs climbing well into the 80s on the lower deserts. The next system to affect our forecast area brings breezy conditions to southeast California beginning later Wednesday afternoon. Breezy to windy conditions overspread the forecast area by Thursday afternoon. At this time, not anticipating widespread blowing dust. While the upper low digs further south than the preceding one, this system is not as cold. Thus, the cool advection in the lower levels will be much weaker. In fact, models depict it fizzling out over our western areas with lower level warming developing upstream Thursday night. This is due to the upstream ridge being stronger and in turn subsidence warming. The upshot is that there will be little change in highs over most of our Arizona zones Wednesday through Friday. Cooling will be mainly near and west of the Lower Colorado River Valley Thursday with some warming there Friday. Anticipate additional warming across the forecast area on Saturday as short wave ridging traverses the region.

&&

.AVIATION...

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

Aviation concerns will be minimal the next 24 hours, with light winds following typical diurnal patterns. Periods of high clouds will affect the area later this afternoon and evening. Breezier conditions are anticipated into late Monday morning ahead of the next dry storm system moving through the region.

Southeast California/Southwest Arizona including KIPL and KBLH:

A modest increase in wind speeds anticipated this afternoon across southeast California, with gusts of 20-25 forecast to occur. These gusts should continue into the late evening across KIPL while remaining out of the west. Thicker upper-level cloudiness will also spread eastward across southeast California, with ceilings approaching 15 thousand feet at KBLH this evening and overnight.

Aviation Discussion not updated for amended TAFs.

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.FIRE WEATHER...

Tuesday through Saturday:

A period of breezy and dry conditions looks probable through much of next week. A storm system passing to the north will support an increase in westerly winds across the region, along with below-normal temperatures. Humidity values are likely to be low enough to support elevated fire weather conditions across parts of southwest and south-central Arizona. Temperatures will rebound Wednesday, before another potent storm system moves into the region late Thursday and Friday. Wind speeds are forecast to increase substantially Thursday afternoon and could result in a period of critical fire weather conditions. More tranquil weather should return to the districts Friday and Saturday as temperatures warm back above seasonal normals.

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.SPOTTER INFORMATION STATEMENT...

Spotters are encouraged to report dense blowing dust next week.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...Fire Weather Watch from Monday morning through Monday evening for AZZ131>133.

CA...Fire Weather Watch from Monday morning through Monday evening for CAZ231.

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DISCUSSION...AJ

AVIATION...Rogers

FIRE WEATHER...Rogers

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593

FXUS66 KSGX 151622

AFDSGX

Area Forecast Discussion

National Weather Service San Diego CA

922 AM PDT Sun Apr 15 2018

.SYNOPSIS...

Onshore flow will return today with a cooling trend for coastal and valley areas. Much stronger onshore flow for tonight into Monday night with further cooling...and strong, gusty southwest to west winds in the mountains and deserts. A deepening marine layer will extend coastal low clouds inland to the coastal mountain slopes for Monday into Monday night...with a slight chance of light showers near the mountains for late Monday into Monday night. Weaker winds with warming for Tuesday into Wednesday. Another low pressure system will bring cooling with strong gusty winds for the mountains and deserts Wednesday night into Thursday night. Dry with warming and weaker winds for Friday and Saturday.

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

This morning...Mid and high clouds are spreading across the region from the northwest, ahead of an approaching low pressure system. Temperatures west of the mtns are generally lower than at this time yesterday, by as much as 14 degrees in a couple of locations. Sfc pressure gradients have turned onshore and are currently 2.2 mb SAN-TPH and 2.5 mb SAN-TRM.

The low pressure system will move inland along the West Coast tonight and Monday. It will bring much stronger onshore flow across Southern California tonight into Monday night. Southwest to west winds will strengthen in the mountains and deserts late this afternoon through tonight, becoming more widespread Monday. The strongest and most widespread winds are expected Monday afternoon and evening when winds of 35-45 mph with gusts to 65 mph are expected. The winds are expected to diminish from north to south late Monday night.

Low clouds are likely to return near the coast during the late afternoon. The marine layer will deepen rapidly tonight into Monday, with low clouds spreading into the valleys during the late evening and overnight, and onto the coastal mountain slopes early Monday. There is also a slight chance of light showers, mainly near the mountains and coastal foothills late Monday into Monday night.

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

Greater cooling is expected for Monday and Monday night with daytime temperatures only reaching the mid 60s west of the mtns.

Warming returns to coastal and valley areas on Tuesday, and for the mountains and deserts Wednesday as the low pressure system moves east and a weak high pressure ridge moves in from the west.

Another low pressure system moving inland through California on Thursday will bring cooling, more clouds and another round of strong gusty west winds in the mountains and deserts Wednesday night into Thursday night. There is also a slight chance of light showers near the mountains on Thursday.

Dry with a warming trend and weaker winds for Friday and Saturday, though with some continuing differences in the deterministic model solutions that indicate a weak trough of low pressure may be near the West Coast next Sunday.

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.AVIATION...

151605Z...Mostly high clouds with unrestricted vis will prevail most of today, except SCT-locally BKN clouds with bases 1000-1500 ft MSL could develop after 21Z along the immediate coast. Beginning around 16/02Z this evening BKN-OVC clouds based 1200-2000 feet MSL with tops around 2500 feet MSL will likely spread inland about 30-40 miles overnight. Higher terrain becoming obscured overnight, with clouds pushing further inland and mountain terrain obscured below 5500 feet MSL by 16/18Z Monday.

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.MARINE...

West-northwest winds will increase over the coastal waters Monday. Winds of 20-25 KT with gusts around 30 knots are possible Monday afternoon through Monday night, decreasing gradually Tuesday. This and 8-10 foot combined seas will result in hazardous conditions to small craft. Similar winds and seas are possible Thursday into Friday.

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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 Watch from late tonight through late Monday 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

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775
FXUS65 KPSR 151928
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
1228 PM MST Sun Apr 15 2018

.UPDATE...Updated aviation and fire weather discussions.

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.SYNOPSIS...

Expect additional warming today with highs on the lower deserts reaching the low 90s. Two vigorous weather systems will move through the western states this week leading to large fluctuations in winds and temperatures from one day to the next. Gusty winds, areas of blowing dust, and heightened fire weather concerns will exist Monday. Expect much cooler temperatures Tuesday. Precipitation chances will be minimal and limited to higher terrain areas of northern and eastern Arizona Thursday night and Friday.

&&

.DISCUSSION...

Today...
Water vapor imagery over western North America and adjacent northeast Pacific shows a ridge axis over the interior West with a large low pressure system moving into western Canada and the Pacific Northwest. This system is pulling some subtropical moisture northward but it is mostly in the upper half of the troposphere. As the low pressure system digs southeastward today, it will displace the ridge eastward. However, plenty of warm air left in the lower levels for some additional warming today. Sunny skies will give way to increasing high clouds later this afternoon.

Monday and Tuesday...

Winds pick up on Monday with the approach of the upper trough and associated cold front. The front will pass through southeast California Monday afternoon and across Arizona Monday night. Strong winds can be expected over southeast California and southwest Arizona during that time with breezy to windy conditions over south-central Arizona. One limiting factor to the wind speeds for the south-central Arizona deserts will be reduced mixing due to thick mid-high clouds in the afternoon. However, if the clouds depart by mid afternoon, breeziness will be stronger. Of note, both the GFS and NAM soundings indicate that mixing won't really be reduced - perhaps offset by southerly winds/warm advection. This is also why we are still anticipating highs to still get into the mid-upper 80s on Monday in metro Phoenix. With the enhanced

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

winds and dry air, held on to the Fire weather watch. Considered adding our southeast CA zones to the Watch, but not looking like the 6 hour duration requirement will be met. Winds also mean blowing dust concerns. Anticipate winds will not be quite as strong as on Thursday (especially over metro Phoenix) and thus dust problems not quite as bad but still enough to be of concern. With the cool advection, expect Tuesday's highs to be much cooler (mid to upper 70s over the lower deserts) even though skies will be clear.

Wednesday through Saturday...

A passing ridge enables a rebound of temperatures on Wednesday with highs climbing well into the 80s on the lower deserts. The next system to affect our forecast area brings breezy conditions to southeast California beginning later Wednesday afternoon. Breezy to windy conditions overspread the forecast area by Thursday afternoon. At this time, not anticipating widespread blowing dust. While the upper low digs further south than the preceding one, this system is not as cold. Thus, the cool advection in the lower levels will be much weaker. In fact, models depict it fizzling out over our western areas with lower level warming developing upstream Thursday night. This is due to the upstream ridge being stronger and in turn subsidence warming. The upshot is that there will be little change in highs over most of our Arizona zones Wednesday through Friday. Cooling will be mainly near and west of the Lower Colorado River Valley Thursday with some warming there Friday. Anticipate additional warming across the forecast area on Saturday as short wave ridging traverses the region.

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.AVIATION...

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

There are no major aviation weather concerns from this afternoon through Monday morning. During this time, the winds will remain fairly light and follow typical diurnal patterns. Some high clouds will begin to filter through the area but should remain AOA 20k feet. However, breezy conditions will take hold Monday afternoon.

Southeast California/Southwest Arizona including KIPL and KBLH:

The wind speeds will generally increase through this afternoon ahead of another weather system with gusts up to 20 kts possible. However, the winds look to blow even stronger by late Monday morning with gusts exceeding 20 kts. In addition, the stronger winds may cause some isolated areas of blowing dust and possibly reducing visibility. Otherwise, some thicker clouds AOA 15k feet will begin to pass over the area Sunday and clearing by late Monday.

Aviation Discussion not updated for amended TAFs.

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.FIRE WEATHER...

ELEVATED FIRE DANGER MONDAY due to strong winds, low relative humidity and dry fuels. South-Central Arizona and the Lower Colorado River Zones are currently under a Fire Weather Watch.

Wednesday through Sunday:

The region will continue to suffer through favorable fire conditions with plenty of dryness and breezy winds. Daily minimum relative humidity values will remain at or below 10 percent for all areas stretching from the southern portions of the Tonto National Forest and westward through the Arizona and California desert. Overnight recoveries are also negligible. Each afternoon will be marked by some breeziness with gusts in the 10-15 miles per hour, especially on any mountain peaks. In addition, another weather system will pass by to our north late this week which should bring some stronger winds to the area with no chance of rain.

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.SPOTTER INFORMATION STATEMENT...

Spotters are encouraged to report dense blowing dust next week.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...Fire Weather Watch from Monday morning through Monday evening for AZZ131>133.

Wind Advisory from 2 PM to 9 PM MST Monday for AZZ530.

CA...Fire Weather Watch from Monday morning through Monday evening for CAZ231.

Wind Advisory from 2 PM to 9 PM PDT Monday for CAZ560>570.

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DISCUSSION...AJ

AVIATION...Deemer

FIRE WEATHER...Deemer

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WWUS76 KSGX 152013

NPWSGX

URGENT - WEATHER MESSAGE

National Weather Service San Diego CA

113 PM PDT Sun Apr 15 2018

...STRONG SOUTHWEST TO WEST WINDS FOR THE MOUNTAINS AND DESERTS FOR LATE TONIGHT INTO MONDAY NIGHT...

CAZ055-056-058-060>062-065-160500-
/O.UPG.KSGX.HW.A.0003.180416T0700Z-180417T1200Z/
/O.NEW.KSGX.WI.Y.0013.180416T0700Z-180417T1200Z/

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 Crestline, Lake Arrowhead, Big Bear City, Big Bear Lake, Running Springs, Wrightwood, Idyllwild-Pine Cove, 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
113 PM PDT Sun Apr 15 2018

...WIND ADVISORY IN EFFECT FROM MIDNIGHT TONIGHT TO 5 AM PDT TUESDAY...

The National Weather Service in San Diego has issued a Wind Advisory...which is in effect from midnight tonight to 5 AM PDT Tuesday. The High Wind Watch is no longer in effect.

- * Winds...Southwest to west winds 35 to 45 mph with gusts to 65 mph. Local gusts to 75 mph.
- * Timing...Winds will develop late this afternoon and evening then strengthen tonight. The strongest and most widespread winds are expected for Monday afternoon and evening. The winds will weaken late Monday night.
- * Location...Near mountain ridge tops and along desert mountain slopes into adjacent desert areas.
- * Impacts...The winds will make driving difficult...especially for motorists with high profile vehicles. This will impact portions of Interstate 10 through the San Gorgonio Pass and the Coachella Valley...Interstate 8 through the San Diego County mountains...and

Interstate 15 across desert areas north of the Cajon Pass. In the deserts...areas of blowing dust and sand will reduce visibility at times. Watch for broken tree limbs and other debris.

* Outlook...Another round of strong west winds is expected for Wednesday night into Thursday night.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A Wind Advisory means that winds of 35 mph are expected. Winds this strong can make driving difficult...especially for high profile vehicles. Use extra caution.

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195
WWUS75 KPSR 152015
NPWPSR

URGENT - WEATHER MESSAGE
National Weather Service Phoenix AZ
115 PM MST Sun Apr 15 2018

AZZ530-CAZ560>570-160815-
/O.NEW.KPSR.WI.Y.0011.180416T2100Z-180417T0400Z/

Parker Valley-Joshua Tree NP West-Joshua Tree NP East-
Imperial County Southwest-Salton Sea-Chuckwalla Mountains-
Imperial County Southeast-Imperial County West-Imperial Valley-
Chiriaco Summit-Palo Verde Valley-Chuckwalla Valley-
Including the cities of Parker, Ehrenberg, Cottonwood Visitor,
Lost Horse-Keys Village, Mountain Spring, Desert Shores,
Imperial Hot Mineral Springs, Winterhaven, Coolidge Springs,
Salton City, Winona, Coyote Wells, Ocotillo, Plaster City,
El Centro, Calexico, Alamo, Brawley, Chiriaco Summit,
Martinez Lake, Blythe, Palo Verde, Ripley, and Midland
115 PM MST Sun Apr 15 2018 /115 PM PDT Sun Apr 15 2018/

...WIND ADVISORY IN EFFECT FROM 2 PM MST /2 PM PDT/ TO 9 PM MST
/9 PM PDT/ MONDAY...

The National Weather Service in Phoenix has issued a Wind
Advisory, which is in effect from 2 PM MST /2 PM PDT/ to 9 PM MST
/9 PM PDT/ Monday.

- * AFFECTED AREA...All of Southeast California and far western
Arizona along the Colorado River
- * TIMING...Early Monday afternoon until Monday night.
- * WINDS...Westerly winds of 25 to 35 mph with gusts in excess of
40 mph.
- * IMPACTS...Difficulty driving due to crosswinds, especially on
roads that run north/south. Winds may cause areas of blowing
dust that can reduce visibility. Unsecured objects may become
airborne.

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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691
FXUS66 KSGX 152040
AFDSGX

Area Forecast Discussion
National Weather Service San Diego CA
140 PM PDT Sun Apr 15 2018

.SYNOPSIS...

Onshore flow will return today with a cooling trend for coastal and valley areas. Much stronger onshore flow for tonight into Monday night with further cooling...and strong, gusty southwest to west winds in the mountains and deserts. A deepening marine layer will extend coastal low clouds inland to the coastal mountain slopes for Monday into Monday night...with a slight chance of light showers near the mountains for late Monday into Monday night. Weaker winds with warming for Tuesday into Wednesday. Another low pressure system will bring cooling with strong gusty winds for the mountains and deserts Wednesday night into Thursday night. Dry with warming and weaker winds for Friday and Saturday.

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

This afternoon...Variable mid and high clouds continue over SOCAL ahead of an approaching low pressure system. Temperatures west of the mtns are anywhere from 1 to 15 degrees lower than at this time yesterday, including in the Santa Ana mountains. Sfc pressure gradients are trending more strongly onshore and are currently 5.4 mb SAN-TPH and 3.8 mb SAN-TRM. The onshore flow is producing west winds from the coast to the mtns, with the highest gust so far of 41 mph at Whitewater between 12 pm and 1 pm.

From previous discussion...

The low pressure system will move inland along the West Coast tonight and Monday. It will bring much stronger onshore flow across Southern California tonight into Monday night. Southwest to west winds will strengthen in the mountains and deserts late this afternoon through tonight, becoming more widespread Monday. The strongest and most widespread winds are expected Monday afternoon and evening when winds of 35-45 mph with gusts to 65 mph are expected. The winds are expected to diminish from north to south late Monday night.

Low clouds are likely to return near the coast during the late afternoon. The marine layer will deepen rapidly tonight into Monday, with low clouds spreading into the valleys during the late evening and overnight, and onto the coastal mountain slopes

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

early Monday. There is also a slight chance of light showers, mainly near the mountains and coastal foothills late Monday into Monday night.

Greater cooling is expected for Monday and Monday night with daytime temperatures only reaching the mid 60s west of the mtns.

Warming returns to coastal and valley areas on Tuesday, and for the mountains and deserts Wednesday as the low pressure system moves east and a weak high pressure ridge moves in from the west.

Another low pressure system moving inland through California on Thursday will bring cooling, more clouds and another round of strong gusty west winds in the mountains and deserts Wednesday night into Thursday night. There is also a slight chance of light showers near the mountains on Thursday.

Dry with a warming trend and weaker winds for Friday and Saturday, though with some continuing differences in the deterministic model solutions that indicate a weak trough of low pressure may be near the West Coast next Sunday.

&&

.AVIATION...

152005Z...Mostly high clouds with unrestricted vis will prevail this afternoon. Beginning around 16/07Z this evening BKN-OVC clouds based 1200-2000 feet MSL with tops around 2500 feet MSL will likely develop over the coastal waters, then spread inland about 30-40 miles overnight. Higher terrain becoming obscured overnight, with clouds pushing further inland and mountain terrain obscured below 5500 feet MSL by 16/18Z Monday. Risk of BKN low clouds moving in by sunrise is high at KSAN, but confidence of the exact timing of the low clouds moving in tonight is low, and could be later than the 16/07Z time in the KSAN TAF.

&&

.MARINE...

West-northwest winds will increase over the coastal waters Monday. Winds of 20-25 KT with gusts around 30 knots are possible Monday afternoon through Monday night, decreasing gradually Tuesday. This and 8-10 foot combined seas will result in hazardous conditions to small craft. Similar winds and seas are possible Thursday into Friday.

&&

.SKYWARN...

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

&&

.SGX WATCHES/WARNINGS/ADVISORIES...
 CA...Wind Advisory from midnight tonight to 5 AM PDT Tuesday 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...PG

AVIATION/MARINE...Small

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131
FXUS65 KPSR 152111
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
211 PM MST Sun Apr 15 2018

.SYNOPSIS... Expect additional warming today with highs on the lower deserts reaching the low 90s. Two vigorous weather systems will move through the western states this week leading to large fluctuations in winds and temperatures from one day to the next. Gusty winds, areas of blowing dust, and heightened fire weather concerns will exist Monday. Expect much cooler temperatures Tuesday. Precipitation chances will be minimal and limited to higher terrain areas of northern and eastern Arizona Thursday night and Friday.

&&

.DISCUSSION...

High clouds are beginning to stream across much of the forecast area this afternoon. This is associated with an upper level surge of moisture flowing off the Pacific and driven by an approaching low pressure system off the Oregon coast.

Temperatures are above normal again today with values near 90 across the lower deserts. Change is coming, however, as that low pressure system will edge closer to the desert southwest, increasing pressure gradients which means higher wind speeds. By Monday evening that gradient will be strongest as the weather system passes as a strong trough to the north of Arizona. The wind, along with the existing dry conditions bring fire weather concerns for Monday with wind concerns stretching into Tuesday.

We will have a short respite before the next weather system begins to impact the area with another round of windy conditions for Thursday.

Temperatures will drop into the 70s for Tuesday as the trough passes through and then move back into the 80s finally pushing back into the 90s by next Sunday.

&&

.PREVIOUS DISCUSSION...

Today...

Water vapor imagery over western North America and adjacent northeast Pacific shows a ridge axis over the interior West with a large low pressure system moving into western Canada and the Pacific Northwest. This system is pulling some subtropical

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

moisture northward but it is mostly in the upper half of the troposphere. As the low pressure system digs southeastward today, it will displace the ridge eastward. However, plenty of warm air left in the lower levels for some additional warming today. Sunny skies will give way to increasing high clouds later this afternoon.

Monday and Tuesday...

Winds pick up on Monday with the approach of the upper trough and associated cold front. The front will pass through southeast California Monday afternoon and across Arizona Monday night. Strong winds can be expected over southeast California and southwest Arizona during that time with breezy to windy conditions over south-central Arizona. One limiting factor to the wind speeds for the south-central Arizona deserts will be reduced mixing due to thick mid-high clouds in the afternoon. However, if the clouds depart by mid afternoon, breeziness will be stronger. Of note, both the GFS and NAM soundings indicate that mixing won't really be reduced - perhaps offset by southerly winds/warm advection. This is also why we are still anticipating highs to still get into the mid-upper 80s on Monday in metro Phoenix. With the enhanced winds and dry air, held on to the Fire Weather Watch. Considered adding our southeast CA zones to the Watch, but not looking like the 6 hour duration requirement will be met. Winds also mean blowing dust concerns. Anticipate winds will not be quite as strong as on Thursday (especially over metro Phoenix) and thus dust problems not quite as bad but still enough to be of concern. With the cool advection, expect Tuesday's highs to be much cooler (mid to upper 70s over the lower deserts) even though skies will be clear.

Wednesday through Saturday...

A passing ridge enables a rebound of temperatures on Wednesday with highs climbing well into the 80s on the lower deserts. The next system to affect our forecast area brings breezy conditions to southeast California beginning later Wednesday afternoon. Breezy to windy conditions overspread the forecast area by Thursday afternoon. At this time, not anticipating widespread blowing dust. While the upper low digs further south than the preceding one, this system is not as cold. Thus, the cool advection in the lower levels will be much weaker. In fact, models depict it fizzling out over our western areas with lower level warming developing upstream Thursday night. This is due to the upstream ridge being stronger and in turn subsidence warming. The upshot is that there will be little change in highs over most of our Arizona zones Wednesday through Friday. Cooling will be mainly near and west of the Lower Colorado River Valley Thursday with some warming there Friday. Anticipate additional warming across the forecast area on Saturday as short wave ridging traverses the region.

&&

.AVIATION...

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

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

There are no major aviation weather concerns from this afternoon through Monday morning. During this time, the winds will remain fairly light and follow typical diurnal patterns. Some high clouds will begin to filter through the area but should remain AOA 20k feet. However, breezy conditions will take hold Monday afternoon.

Southeast California/Southwest Arizona including KIPL and KBLH:

The wind speeds will generally increase through this afternoon ahead of another weather system with gusts up to 20 kts possible. However, the winds look to blow even stronger by late Monday morning with gusts exceeding 20 kts. In addition, the stronger winds may cause some isolated areas of blowing dust and possibly reducing visibility. Otherwise, some thicker clouds AOA 15k feet will begin to pass over the area Sunday and clearing by late Monday.

Aviation Discussion not updated for amended TAFs.

&&

.FIRE WEATHER...

ELEVATED FIRE DANGER MONDAY due to strong winds, low relative humidity and dry fuels. South-Central Arizona and the Lower Colorado River Zones are currently under a Fire Weather Watch.

Wednesday through Sunday:

The region will continue to suffer through favorable fire conditions with plenty of dryness and breezy winds. Daily minimum relative humidity values will remain at or below 10 percent for all areas stretching from the southern portions of the Tonto National Forest and westward through the Arizona and California desert. Overnight recoveries are also negligible. Each afternoon will be marked by some breeziness with gusts in the 10-15 miles per hour, especially on any mountain peaks. In addition, another weather system will pass by to our north late this week which should bring some stronger winds to the area with no chance of rain.

&&

.SPOTTER INFORMATION STATEMENT...

Spotters are encouraged to report dense blowing dust next week.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...Fire Weather Watch from Monday morning 11 AM PDT/MST through Monday evening for AZZ131>133.

Wind Advisory from 2 PM to 9 PM MST Monday for AZZ530.

April 16, 2018 Exceptional Event, Imperial County

Appendix A

CA...Fire Weather Watch from Monday morning 11 AM PDT/MST through Monday evening 8 PM PDT/MST for CAZ231.

Wind Advisory from 2 PM to 9 PM PDT Monday for CAZ560>570.

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DISCUSSION...Waters/AJ

AVIATION...Deemer

FIRE WEATHER...Deemer

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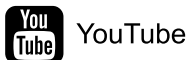
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WWUS76 KSGX 152208

NPWSGX

URGENT - WEATHER MESSAGE

National Weather Service San Diego CA

308 PM PDT Sun Apr 15 2018

...Increasingly strong winds for the mountains and deserts tonight through Monday night...

CAZ061-062-160615-

/O.CON.KSGX.WI.Y.0013.180416T0700Z-180417T1200Z/

Coachella Valley-San Diego County Deserts-

Including the cities of Indio, Palm Springs, Cathedral City, Palm Desert, Palm Desert Country, La Quinta, Coachella, and Borrego Springs

308 PM PDT Sun Apr 15 2018

...WIND ADVISORY REMAINS IN EFFECT FROM MIDNIGHT TONIGHT TO 5 AM PDT TUESDAY...

- * Winds...West to Northwest winds 25 to 35 mph with gusts to 45 mph. Local gusts to 55 mph.
- * Timing...Winds will develop late this afternoon and evening then strengthen overnight. The strongest and most widespread winds are expected for Monday afternoon and evening. The winds will weaken late Monday night and early Tuesday.
- * Location...Coachella Valley including Palm Springs and Borrego Valley deserts.
- * Impacts...The winds will make driving difficult...especially for motorists with high profile vehicles. This will impact portions of Interstate 10 through the San Geronio Pass and the Coachella Vally...Interstate 8 through the San Diego County mountains into the deserts. There will also be areas of areas of blowing dust and sand which will reduce visibility at times. Watch for broken tree limbs and other debris.
- * Outlook...Another round of strong west winds is expected for Wednesday night into Thursday night.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A Wind Advisory means that winds of 35 mph are expected. Winds this strong can make driving difficult...especially for high profile vehicles. Use extra caution.

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April 16, 2018 Exceptional Event, Imperial County

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CAZ055-056-058-160615-

/O.CON.KSGX.WI.Y.0013.180416T0700Z-180417T1200Z/

San Bernardino County Mountains-Riverside County Mountains-

San Diego County Mountains-

Including the cities of Crestline, Lake Arrowhead, Big Bear City,

Big Bear Lake, Running Springs, Wrightwood, Idyllwild-Pine Cove,

Julian, and Pine Valley

308 PM PDT Sun Apr 15 2018

...WIND ADVISORY REMAINS IN EFFECT FROM MIDNIGHT TONIGHT TO 5 AM
PDT TUESDAY...

- * Winds...Southwest to west winds 35 to 45 mph with gusts to 65 mph. Local gusts to 75 mph.
- * Timing...Winds will develop this evening then strengthen tonight. The strongest and most widespread winds are expected for Monday afternoon and evening. The winds will weaken late Monday night.
- * Location...Near mountain ridge tops and along desert mountain slopes and passes.
- * Impacts...The winds will make driving difficult...especially for motorists with high profile vehicles. This will impact Interstate 8 through the San Diego County mountains...and Interstate 15 and the Cajon Pass. Watch for broken tree limbs and other debris.
- * Outlook...Another round of strong west winds is expected for Wednesday night into Thursday night.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A Wind Advisory means that winds of 35 mph are expected. Winds this strong can make driving difficult...especially for high profile vehicles. Use extra caution.

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CAZ060-065-160615-

/O.CON.KSGX.WI.Y.0013.180416T0700Z-180417T1200Z/

Apple and Lucerne Valleys-San Gorgonio Pass Near Banning-

Including the cities of Victorville, Hesperia, Apple Valley,

Banning, and Desert Hot Springs

308 PM PDT Sun Apr 15 2018

...WIND ADVISORY REMAINS IN EFFECT FROM MIDNIGHT TONIGHT TO 5 AM
PDT TUESDAY...

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

- * Winds...Southwest to west winds 35 to 45 mph with gusts to 65 mph. Local gusts to 75 mph in wind prone areas.
- * Timing...Winds will continue late this afternoon and strengthen this evening and overnight. The strongest and most widespread winds are expected on Monday. The winds will weaken late Monday night.
- * Location...Johnson and Lucerne Valleys, near Cajon Pass, and the San Gorgonio Pass.
- * Impacts...The winds will make driving difficult...especially for motorists with high profile vehicles. This will impact portions of Interstate 10 through the San Gorgonio Pass towards the Coachella Vally and Interstate 15 across desert areas north of the Cajon Pass. Areas of blowing dust and sand will reduce visibility at times. Watch for broken tree limbs and other debris.
- * Outlook...Another round of strong west winds is expected for Wednesday night into Thursday night.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A Wind Advisory means that sustained winds of 35 to 45 mph are expected. Winds this strong can make driving difficult...especially for high profile vehicles. Use extra caution.

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104
FXUS65 KPSR 152219
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
319 PM MST Sun Apr 15 2018

.UPDATE...Update to Fire Weather Discussion...

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.SYNOPSIS... Expect additional warming today with highs on the lower deserts reaching the low 90s. Two vigorous weather systems will move through the western states this week leading to large fluctuations in winds and temperatures from one day to the next. Gusty winds, areas of blowing dust, and heightened fire weather concerns will exist Monday. Expect much cooler temperatures Tuesday. Precipitation chances will be minimal and limited to higher terrain areas of northern and eastern Arizona Thursday night and Friday.

&&

.DISCUSSION...

High clouds are beginning to stream across much of the forecast area this afternoon. This is associated with an upper level surge of moisture flowing off the Pacific and driven by an approaching low pressure system off the Oregon coast.

Temperatures are above normal again today with values near 90 across the lower deserts. Change is coming, however, as that low pressure system will edge closer to the desert southwest, increasing pressure gradients which means higher wind speeds. By Monday evening that gradient will be strongest as the weather system passes as a strong trough to the north of Arizona. The wind, along with the existing dry conditions bring fire weather concerns for Monday with wind concerns stretching into Tuesday.

We will have a short respite before the next weather system begins to impact the area with another round of windy conditions for Thursday.

Temperatures will drop into the 70s for Tuesday as the trough passes through and then move back into the 80s finally pushing back into the 90s by next Sunday.

&&

.PREVIOUS DISCUSSION...

Monday and Tuesday...

Winds pick up on Monday with the approach of the upper trough and

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

associated cold front. The front will pass through southeast California Monday afternoon and across Arizona Monday night. Strong winds can be expected over southeast California and southwest Arizona during that time with breezy to windy conditions over south-central Arizona. One limiting factor to the wind speeds for the south-central Arizona deserts will be reduced mixing due to thick mid-high clouds in the afternoon. However, if the clouds depart by mid afternoon, breeziness will be stronger. Of note, both the GFS and NAM soundings indicate that mixing won't really be reduced - perhaps offset by southerly winds/warm advection. This is also why we are still anticipating highs to still get into the mid-upper 80s on Monday in metro Phoenix. With the enhanced winds and dry air, held on to the Fire Weather Watch. Considered adding our southeast CA zones to the Watch, but not looking like the 6 hour duration requirement will be met. Winds also mean blowing dust concerns. Anticipate winds will not be quite as strong as on Thursday (especially over metro Phoenix) and thus dust problems not quite as bad but still enough to be of concern. With the cool advection, expect Tuesday's highs to be much cooler (mid to upper 70s over the lower deserts) even though skies will be clear.

Wednesday through Saturday...

A passing ridge enables a rebound of temperatures on Wednesday with highs climbing well into the 80s on the lower deserts. The next system to affect our forecast area brings breezy conditions to southeast California beginning later Wednesday afternoon. Breezy to windy conditions overspread the forecast area by Thursday afternoon. At this time, not anticipating widespread blowing dust. While the upper low digs further south than the preceding one, this system is not as cold. Thus, the cool advection in the lower levels will be much weaker. In fact, models depict it fizzling out over our western areas with lower level warming developing upstream Thursday night. This is due to the upstream ridge being stronger and in turn subsidence warming. The upshot is that there will be little change in highs over most of our Arizona zones Wednesday through Friday. Cooling will be mainly near and west of the Lower Colorado River Valley Thursday with some warming there Friday. Anticipate additional warming across the forecast area on Saturday as short wave ridging traverses the region.

&&

.AVIATION...

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

There are no major aviation weather concerns from this afternoon through Monday morning. During this time, the winds will remain fairly light and follow typical diurnal patterns. Some high clouds will begin to filter through the area but should remain AOA 20k feet. However, breezy conditions will take hold Monday afternoon.

Southeast California/Southwest Arizona including KIPL and KBLH:

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

The wind speeds will generally increase through this afternoon ahead of another weather system with gusts up to 20 kts possible. However, the winds look to blow even stronger by late Monday morning with gusts exceeding 20 kts. In addition, the stronger winds may cause some isolated areas of blowing dust and possibly reducing visibility. Otherwise, some thicker clouds AOA 15k feet will begin to pass over the area Sunday and clearing by late Monday.

Aviation Discussion not updated for amended TAFs.

&&

.FIRE WEATHER...

ELEVATED FIRE DANGER MONDAY due to strong winds, low relative humidity and dry fuels. Southern Gila County is currently under a Red Flag Warning, South-Central Arizona and the Lower Colorado River Zones are currently under a Fire Weather Watch.

Wednesday through Sunday:

The region will continue to suffer through favorable fire conditions with plenty of dryness and breezy winds. Daily minimum relative humidity values will remain at or below 10 percent for all areas stretching from the southern portions of the Tonto National Forest and westward through the Arizona and California desert. Overnight recoveries are also negligible. Each afternoon will be marked by some breeziness with gusts in the 10-15 miles per hour, especially on any mountain peaks. In addition, another weather system will pass by to our north late this week which should bring some stronger winds to the area with no chance of rain.

&&

.SPOTTER INFORMATION STATEMENT...

Spotters are encouraged to report dense blowing dust next week.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...Fire Weather Watch from Monday morning through Monday evening for AZZ131-132.

Red Flag Warning from 11 AM to 8 PM MST Monday for AZZ133.

Wind Advisory from 2 PM to 9 PM MST Monday for AZZ530.

CA...Fire Weather Watch from Monday morning through Monday evening for CAZ231.

Wind Advisory from 2 PM to 9 PM PDT Monday for CAZ560>570.

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WWUS76 KSGX 160337
NPWSGX

URGENT - WEATHER MESSAGE
National Weather Service San Diego CA
837 PM PDT Sun Apr 15 2018

...Increasingly strong winds for the mountains and deserts
tonight through Monday night...

CAZ061-062-161245-
/O.UPG.KSGX.WI.Y.0013.180416T0700Z-180417T1200Z/
/O.NEW.KSGX.HW.W.0005.180416T0700Z-180417T1200Z/

Coachella Valley-San Diego County Deserts-
Including the cities of Indio, Palm Springs, Cathedral City,
Palm Desert, Palm Desert Country, La Quinta, Coachella,
and Borrego Springs
837 PM PDT Sun Apr 15 2018

...HIGH WIND WARNING IN EFFECT FROM MIDNIGHT TONIGHT TO 5 AM PDT
TUESDAY...

The National Weather Service in San Diego has issued a High Wind
Warning...which is in effect from midnight tonight to 5 AM PDT
Tuesday. The is an upgrade and the Wind Advisory is no longer in
effect.

- * Winds...West to Northwest winds 10 to 20 mph with gusts to 30
mph overnight. Winds increasing to speeds of 20 to 30 mph with
gusts to 45 mph on Monday. Local wind gusts to around 55 mph
Monday afternoon and evening.
- * Timing...The strongest and most widespread winds are expected
for Monday afternoon and evening. The winds will weaken late
Monday night and early Tuesday.
- * Location...Coachella Valley including Palm Springs and Borrego
Valley deserts.
- * Visibility...Reduced to a couple miles due to blowing dust.
- * Impacts...The winds will make driving difficult...especially for
motorists with high profile vehicles. This will impact portions
of Interstate 10 through the San Geronio Pass and the Coachella
Vally...Interstate 8 through the San Diego County mountains into
the deserts. There will also be areas of areas of blowing dust
and sand which will reduce visibility at times. Wind gusts over
50 mph can down trees, powerpoles and signs. Watch for tree
limbs and other debris.

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

- * Outlook...Another round of strong northwest winds is expected for Wednesday night into Thursday night.
- * Reports...Report wind damage to law enforcement.

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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CAZ060-065-161245-

/O.UPG.KSGX.WI.Y.0013.180416T0700Z-180417T1200Z/

/O.NEW.KSGX.HW.W.0005.180416T0700Z-180417T1200Z/

Apple and Lucerne Valleys-San Gorgonio Pass Near Banning-
Including the cities of Victorville, Hesperia, Apple Valley,
Banning, and Desert Hot Springs

837 PM PDT Sun Apr 15 2018

...HIGH WIND WARNING IN EFFECT FROM MIDNIGHT TONIGHT TO 5 AM PDT
TUESDAY...

The National Weather Service in San Diego has issued a High Wind Warning...which is in effect from midnight tonight to 5 AM PDT Tuesday. The is an upgrade and the Wind Advisory is no longer in effect.

- * Winds...Southwest to west winds 15 to 30 mph with gusts to 55 mph in passes overnight. Winds increase on Monday to 35 to 45 mph and are strongest Monday afternoon and evening when gusts to 65 mph are expected. Gusts to 75 mph in wind prone areas are possible.
- * Timing...The strongest and possible damaging winds will be most widespread winds on Monday. The winds will weaken late Monday night.
- * Location...Johnson and Lucerne Valleys, near Cajon Pass, and the San Gorgonio Pass.
- * Visibility...Reduced to a few times due to blowing dust and sand on Monday.
- * Impacts...The winds will make driving difficult...especially for motorists with high profile vehicles. This will impact portions of Interstate 10 through the San Gorgonio Pass towards the Coachella Vally and Interstate 15 across desert areas north of the Cajon Pass. Areas of blowing dust and sand will reduce visibility at times. Winds gusting over 60 mph can cause damage

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

to homes and powerlines. Wind gusts exceeding 70 mph in wind prone areas can be an impact.

- * Outlook...Another round of strong west winds is expected for Wednesday night into Thursday night.
- * Reports...Report wind damage to law enforcement.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A Wind Advisory means that sustained winds of 35 to 45 mph are expected. Winds this strong can make driving difficult... especially for high profile vehicles. Use extra caution.

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 70 mph or more can lead to property damage.

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CAZ055-056-058-161245-

/O.UPG.KSGX.WI.Y.0013.180416T0700Z-180417T1200Z/

/O.NEW.KSGX.HW.W.0005.180416T0700Z-180417T1200Z/

San Bernardino County Mountains-Riverside County Mountains-

San Diego County Mountains-

Including the cities of Crestline, Lake Arrowhead, Big Bear City, Big Bear Lake, Running Springs, Wrightwood, Idyllwild-Pine Cove, Julian, and Pine Valley

837 PM PDT Sun Apr 15 2018

...HIGH WIND WARNING IN EFFECT FROM MIDNIGHT TONIGHT TO 5 AM PDT TUESDAY...

The National Weather Service in San Diego has issued a High Wind Warning...which is in effect from midnight tonight to 5 AM PDT Tuesday. This is an upgrade and the Wind Advisory is no longer in effect.

- * Winds...Southwest to west winds 20 to 35 mph with gusts to 55 mph developing overnight. Stronger winds at speeds of 35 to 50 mph and gusts 70 to 80 mph are expected to develop on Monday and continue into Monday evening before shifting to the northwest.
- * Timing...Winds will develop this evening then strengthen tonight. The strongest and most widespread winds are expected for Monday afternoon and evening. The winds will weaken late Monday night after turning to a northwest direction.
- * Location...Near mountain ridge tops and along desert mountain slopes and passes.

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

- * Impacts...The winds will make driving difficult...especially for motorists with high profile vehicles. This will impact Interstate 8 through the San Diego County mountains...and Interstate 15 and the Cajon Pass. Wind speeds over 70 mph can cause down trees and powerpoles. Watch for broken tree limbs and other debris.
- * Outlook...Another round of strong west winds is expected for Wednesday night into Thursday night.
- * Reports...Report wind damage to law enforcement.

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 70 mph or more can lead to property damage.

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530
FXUS66 KSGX 160402
AFDSGX

Area Forecast Discussion
National Weather Service San Diego CA
902 PM PDT Sun Apr 15 2018

.SYNOPSIS...

Onshore flow increases for much cooler weather. A stronger onshore flow will develop late tonight and Monday, continuing into Monday night. This will bring strong winds to the mountains, passes and deserts. A deepening marine layer will extend coastal low clouds inland to the coastal mountain slopes for Monday into Monday night. Patchy drizzle on the coast and scattered light showers. A dry weak offshore flow develops on Tuesday for warming into Wednesday. Another cold front will bring cooling and strong gusty winds for the mountains and deserts Wednesday night into Thursday night. Dry with significant warming and weak offshore winds for Friday and Saturday.

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

We saw the cooling today on the coast and inland valleys as maximum temps were held to mid 70s to lower 80s with stronger onshore flow. Period of dense high clouds in short wave trough in southwest flow also occurred. The lower deserts still topped around 90F. We have seen moderate flow into the San Gorgonio Pass and now still into northern Coachella Valley. Lots of great views of lenticular clouds out the window and on webcams. Winds aloft increase notably after midnight. We should see the passes also increase again. Low clouds are slowly forming and should continue though high clouds are covering most on satellite. Once the marine layer forms it will be rapid and deepen so patches of drizzle should develop Monday morning along the coast.

The incoming short wave trough is rather strong with 545 DM at 500 mb cutting into the southern Sierra Nevada. Wind speeds at 700 mb are progged to peak at 60-65 knots from 21-03 UTC, Monday afternoon and evening. The return interval and anomaly indicates similar strength to the April 12 wind event. This is a mountain, high desert and lower desert type of wind event again, but strong even for these areas with potential for breaking waves due to a stable moist layer up to about 800 mb. Even some light showers for the mountains as the trough axis arrives Monday evening. Given the wind potential and the impact in the Coachella Valley and San Diego desert region as it occurs in Aprils in the past we have issued an upgrade to a High Wind Warning. The message was

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

separated too so that 75 mph wind does not get included in the lower deserts which will see northwest winds and gusts to around 55-60 mph. There is potential for 80 mph wind at most wind prone areas on the desert slopes during the trough axis and wind shift occurs Monday evening between 21 and 09 UTC and then winds decrease but last in the Coachella Valley due to postfrontal northwest enhancement.

Still on track for another fast moving system on Thursday with similar wind threat for mountains and deserts. Then an offshore flow push and upper level ridging leading to significant warming next weekend.

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.AVIATION...

160350Z...Coast/Valleys/Coastal Slopes...Areas of BKN marine stratus are expected to develop and spread rapidly inland overnight. Bases initially near 1500 FT MSL should lift to between 2500-3000 FT MSL by 17Z Monday morning. Tops will rise from around 2500 FT to 5000 FT by Monday evening, partially obscuring the coastal slopes of the mts...elsewhere, mostly P6SM with unrestricted VIS. Above the marine layer...Clouds based near FL200 through 15Z Mon, becoming clear Mon afternoon. Low-Moderate confidence on bases/timing at TAF sites.

Mts/Deserts...Westerly winds will be increasing over the mtn ridges and upper desert slopes 30-40KT through 12Z...increasing further after 18Z through 00Z Tue from the west at 40-60KT. The stronger winds will sfc over the deserts 00Z-06Z at 25-40KT with locally higher gusts...mainly 00Z through 06Z Tue. These winds will create strong UDDFS and LLWS above and near the desert foothills and local VIS blo 3SM in dust on the desert floor. CIGS AOA FL200 with standing lenticulars over the mts through about 15Z...becoming mostly clear after 18Z, xcp over the deserts where SCT wave clouds near FL080-120 are possible.

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.MARINE...

West-northwest winds will increase over the coastal waters Monday. Winds of 20-25 KT with gusts around 30 knots are possible Monday afternoon through Monday night, decreasing gradually Tuesday. The wind and 8-10 foot combined seas will result in hazardous conditions to small craft. northwest winds 20-25KT are possible again on Thursday with elevated seas.

&&

.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 midnight tonight to 5 AM PDT Tuesday 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...Tardy

AVIATION/MARINE...JAD

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144
WWUS75 KPSR 160926
NPWPSR

URGENT - WEATHER MESSAGE
National Weather Service Phoenix AZ
226 AM MST Mon Apr 16 2018

AZZ530-CAZ560>570-170000-
/O.EXT.KPSR.WI.Y.0011.180416T2100Z-180417T0600Z/

Parker Valley-Joshua Tree NP West-Joshua Tree NP East-
Imperial County Southwest-Salton Sea-Chuckwalla Mountains-
Imperial County Southeast-Imperial County West-Imperial Valley-
Chiriaco Summit-Palo Verde Valley-Chuckwalla Valley-
Including the cities of Parker, Ehrenberg, Cottonwood Visitor,
Lost Horse-Keys Village, Mountain Spring, Desert Shores,
Imperial Hot Mineral Springs, Winterhaven, Coolidge Springs,
Salton City, Winona, Coyote Wells, Ocotillo, Plaster City,
El Centro, Calexico, Alamo, Brawley, Chiriaco Summit,
Martinez Lake, Blythe, Palo Verde, Ripley, and Midland
226 AM MST Mon Apr 16 2018 /226 AM PDT Mon Apr 16 2018/

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

- * AFFECTED AREA...All of Southeast California and far western
Arizona along the Colorado River.
- * TIMING...Early Monday afternoon until Monday night.
- * WINDS...Westerly winds of 25 to 35 mph with gusts in excess of
40 mph.
- * IMPACTS...Difficulty driving due to crosswinds, especially on
roads that run north/south. Winds may cause areas of blowing
dust that can reduce visibility. Unsecured objects may become
airborne.

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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291
WWUS76 KSGX 160936
NPWSGX

URGENT - WEATHER MESSAGE
National Weather Service San Diego CA
236 AM PDT Mon Apr 16 2018

...STRONG GUSTY WEST WINDS FOR THE MOUNTAINS AND DESERTS THROUGH
LATE TONIGHT...

CAZ062-162130-
/O.CON.KSGX.HW.W.0005.00000T0000Z-180417T1200Z/

San Diego County Deserts-
Including the city of Borrego Springs
236 AM PDT Mon Apr 16 2018

...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY...

- * Winds...Areas of west to northwest winds 30 to 40 mph with gusts to 65 mph.
- * Timing...The strongest and most widespread winds are expected for this afternoon and evening. The winds will gradually subside late tonight and early Tuesday.
- * Visibility...Reduced at times in blowing sand and blowing dust.
- * Impacts...The winds will make driving difficult...especially for motorists with high profile vehicles. There will also be areas of areas of blowing dust and sand which will reduce visibility at times. Watch for broken tree limbs and other debris.
- * Outlook...Another round of strong west winds is expected for Wednesday night into Thursday night.
- * Reports...Report wind damage to law enforcement.

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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CAZ055-056-058-162130-
/O.CON.KSGX.HW.W.0005.00000T0000Z-180417T1200Z/

San Bernardino County Mountains-Riverside County Mountains-
San Diego County Mountains-

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

Including the cities of Crestline, Lake Arrowhead, Big Bear City, Big Bear Lake, Running Springs, Wrightwood, Idyllwild-Pine Cove, and Julian

236 AM PDT Mon Apr 16 2018

...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY...

- * Winds...Areas of southwest to west winds 30 to 40 mph with gusts to 65 mph. Isolated gusts to 80 mph.
- * Timing...The most widespread strong and possibly damaging winds are expected for this afternoon into this evening. The winds will weaken late tonight.
- * Location...Near mountain ridge tops and along desert mountain slopes and passes.
- * Impacts...The winds will make driving difficult...especially for motorists with high profile vehicles. This will impact Interstate 8 through the San Diego County mountains...and Interstate 15 through the Cajon Pass. Watch for broken tree limbs and other debris.
- * Outlook...Another round of strong west winds is expected for Wednesday night into Thursday night.

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 70 mph or more can lead to property damage.

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CAZ060-065-162130-

/O.CON.KSGX.HW.W.0005.00000T0000Z-180417T1200Z/

Apple and Lucerne Valleys-San Gorgonio Pass Near Banning-
Including the cities of Victorville, Hesperia, Apple Valley,
Banning, and Desert Hot Springs

236 AM PDT Mon Apr 16 2018

...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY...

- * Winds...Areas of southwest to west winds 30 to 40 mph with gusts to 65 mph. Isolated gusts to 75 mph near the foothills of the mountains and in the northern Coachella Valley below the San Gorgonio Pass.
- * Timing...The most widespread strong and possibly damaging winds are expected for this afternoon into this evening. The winds will weaken late tonight.

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

- * Visibility...Reduced at times in blowing sand and blowing dust.
- * Impacts...The winds will make driving difficult...especially for motorists with high profile vehicles. This will impact portions of Interstate 10 through the San Gorgonio Pass towards the Coachella Valley and Interstate 15 across desert areas north of the Cajon Pass. Areas of blowing dust and sand will reduce visibility at times. Watch for broken tree limbs and other debris.
- * Outlook...Another round of strong west winds is expected for Wednesday night into Thursday night.
- * Reports...Report wind damage to law enforcement.

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 70 mph or more can lead to property damage.

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CAZ061-162130-

/O.CON.KSGX.HW.W.0005.000000T0000Z-180417T1200Z/

Coachella Valley-

Including the city of Cathedral City

236 AM PDT Mon Apr 16 2018

...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY...

- * Winds...Areas of west to northwest winds 20 to 30 mph with gusts to 45 mph.
- * Timing...The strongest and most widespread winds are expected for this afternoon and evening. The winds will weaken late tonight and early Tuesday.
- * Location...Strongest winds north and east of Interstate 10.
- * Visibility...Reduced at times in blowing sand and blowing dust.
- * Impacts...The winds will make driving difficult...especially for motorists with high profile vehicles. There will also be areas of areas of blowing dust and sand which will reduce visibility at times. Watch for broken tree limbs and other debris.
- * Outlook...Another round of strong northwest winds is expected for Wednesday night into Thursday night.

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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17

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FXUS66 KSGX 161002
AFDSGX

Area Forecast Discussion
National Weather Service San Diego CA
302 AM PDT Mon Apr 16 2018

.SYNOPSIS...

A low pressure system moving inland along the West Coast will bring much stronger onshore flow through tonight. This will bring cooling...spread coastal clouds onto the coastal mountain slopes with a slight chance of light showers near the mountains for late this afternoon into tonight...and bring strong gusty west winds in the mountains and deserts through late tonight. Dry with weaker winds and a warming trend for Tuesday and Wednesday. Another low pressure system moving inland through California will bring cooling with periods of strong gusty west winds for the mountains and deserts for Wednesday night into Thursday night. There is also a slight chance of light showers along and west of the mountains Thursday. Dry with a warming trend for Friday into next weekend with weaker winds.

&&

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

.SHORT TERM (Today through Wednesday)...

Surface reports show stronger winds early this morning mostly confined to areas near the mountain ridge tops onto the upper desert slopes. The winds will gradually strengthen and spread into the deserts through this morning. The strongest and most widespread winds are expected for this afternoon and evening... decreasing late tonight into early Tuesday.

The low pressure system moving inland along the West Coast bringing the much stronger onshore flow will spread cooling inland today. Areas of coastal low clouds will return and expand onto the coastal mountain slopes as the marine layer deepens. There is also a slight chance of light showers...mainly near the mountains...for late this afternoon into tonight.

Dry weather with weaker winds will follow for Tuesday into Wednesday. Warming for coastal and valley areas on Tuesday will expand into the mountains and deserts on Wednesday.

&&

.LONG TERM (Wednesday night through Sunday)...

Another low pressure system moving inland through California will

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

bring another round of strong onshore flow with cooling and with periods of strong gusty west winds for the mountains and deserts for Wednesday night into Thursday night. There is also a slight chance of light showers along and west of the mountains Thursday. Dry weather with a warming trend will following for Friday into next weekend. Periods of gusty north to northeast winds near the coastal foothills are possible for Friday into Saturday morning.

&&

.AVIATION... 160900Z...Coast/Valleys/Coastal Slopes...Low clouds will gradually increase through sunrise overall, but will be somewhat intermittent and random in coverage. Bases will be around 1500 feet MSL rising to about 2500 feet. Vis Generally scattered conditions after 17Z. 3-5sm along far inland extent of clouds. Low clouds will increase again late afternoon and evening, pushing into mountains to the crests where some obscuration will occur above about 3000 feet along with isolated light showers. Skies will clear from north to south early Tuesday.

Desert slopes/Deserts...Westerly winds over the ridges and upper desert slopes 30-50KT with isolated higher gusts today into tonight. Winds will create strong UDDFS and LLWS above and near the desert foothills and local VIS blo 3SM in dust on the desert floor. CIGS AOA FL200 with standing lenticulars over the mts through about 15Z...becoming mostly clear after 18Z, xcp over the deserts where SCT wave clouds near FL080-120 are possible.

&&

.MARINE...

West-northwest winds will increase this morning and northwest swell will increase today and tonight, creating hazardous boating conditions. Check the small craft advisory for details. Winds will decrease rapidly early Tuesday while swell more gradually subsides later Tuesday. After no forecast hazardous conditions Tuesday into Wednesday, strong winds and higher seas will return late Wednesday through Thursday.

&&

.SKYWARN...

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

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...High Wind Warning until 5 AM PDT Tuesday 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.

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

PZ...Small Craft Advisory from 10 AM this morning to 8 AM PDT Tuesday 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...17

AVIATION/MARINE...MM

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197
FXUS65 KPSR 161018
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
318 AM MST Mon Apr 16 2018

.SYNOPSIS...A weather system moving across the western U.S. will bring increasing breeziness, areas of blowing dust, and elevated to critical fire weather conditions to the region. A significant but short-lived cooling trend will occur into Tuesday, before temperatures warm back to near seasonal normals mid-week. A second dry storm system will affect the Southwest Thursday and Friday, bringing another round of breeziness to the region along with a slight cooldown.

&&

.DISCUSSION...

A band of mid-/upper-level cloudiness continues to spread northeastward from the Pacific, ahead of a storm system off the coast of northern California. Little change in temperatures compared to yesterday is expected, as more substantial height falls and low-level cooling remains displaced to the west today. Should see highs top out between 85-90 degrees across most of the lower desert locations.

The more significant impact will be the increasing wind speeds across the area. Forecast models indicate a significant strengthening in flow within the H5-7 layer will occur this afternoon as the upper-level disturbance accelerates east of the area. Diurnal mixing beneath the increasing flow aloft, along with a tightening gradient in response to rapid pressure falls across the eastern Great Basin and northern Rockies, will result in increasing wind speeds this afternoon. The most notable signal for strong winds remains across southeast California into the lower Colorado River Valley, where gusts in excess of 40 mph will be possible this afternoon. Breezy conditions are still expected across southwest/south-central Arizona, where gusts of 25-30 mph are forecast to occur. This will be enough to generate at least patchy blowing dust across the lower deserts this afternoon.

Additionally, elevated to critical fire weather conditions remain a concern area-wide, with a Red Flag Warning in effect for southern Gila County today.

A significant cooldown into Tuesday can be expected as a cold front moves eastward overnight. Highs 5-8 degrees below normal can be expected, with highs in the upper 70s forecast across the lower deserts. Transient shortwave ridging will build across the region by mid-week, before a deeper and slower-moving storm system evolves along the Pacific coast. Moisture will still be lacking

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

west of the Continental Divide, with the primary effect being another increase in winds on Thursday/Friday and a minor cooldown. With limited moisture, precipitation chances will remain low across most of the forecast area, but a very slight chance of showers may clip southern Gila County Friday afternoon and evening. A general weakening of westerlies aloft is forecast to occur in the wake of the departing storm system into next weekend, resulting in another warming trend and perhaps a more prolonged period of weaker wind speeds across the Southwest.

&&

.AVIATION...

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

There are no major aviation weather concerns from this afternoon through Monday morning. During this time, the winds will remain fairly light and follow typical diurnal patterns. Some high clouds will begin to filter through the area but should remain AOA 20k feet. However, breezy conditions will take hold Monday afternoon.

Southeast California/Southwest Arizona including KIPL and KBLH:

The wind speeds will generally increase through this afternoon ahead of another weather system with gusts up to 20 kts possible. However, the winds look to blow even stronger by late Monday morning with gusts exceeding 20 kts. In addition, the stronger winds may cause some isolated areas of blowing dust and possibly reducing visibility. Otherwise, some thicker clouds AOA 15k feet will begin to pass over the area Sunday and clearing by late Monday.

Aviation Discussion not updated for amended TAFs.

&&

.FIRE WEATHER...

ELEVATED FIRE DANGER MONDAY due to strong winds, low relative humidity and dry fuels. Southern Gila County is currently under a Red Flag Warning.

Wednesday through Sunday:

The region will continue to suffer through favorable fire conditions with plenty of dryness and breezy winds. Daily minimum relative humidity values will remain at or below 10 percent for all areas stretching from the southern portions of the Tonto National Forest and westward through the Arizona and California desert. Overnight recoveries are also negligible. Each afternoon will be marked by some breeziness with gusts in the 10-15 miles per hour, especially on any mountain peaks. In addition, another weather system will pass by to our north late this week which should bring some stronger winds to the area with no chance of rain.

&&

.SPOTTER INFORMATION STATEMENT...

Spotters are encouraged to report dense blowing dust next week.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...Red Flag Warning from 11 AM this morning to 8 PM MST this evening for AZZ133.

Wind Advisory from 2 PM this afternoon to 11 PM MST this evening for AZZ530.

CA...Wind Advisory from 2 PM this afternoon to 11 PM PDT this evening for CAZ560>570.

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DISCUSSION...Rogers

AVIATION...Deemer

FIRE WEATHER...Deemer/Kuhlman

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653
FXUS65 KPSR 161243
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
543 AM MST Mon Apr 16 2018

.UPDATE...
Updated Aviation and Fire Weather sections.

&&

.SYNOPSIS...A weather system moving across the western U.S. will bring increasing breeziness, areas of blowing dust, and elevated to critical fire weather conditions to the region. A significant but short-lived cooling trend will occur into Tuesday, before temperatures warm back to near seasonal normals mid-week. A second dry storm system will affect the Southwest Thursday and Friday, bringing another round of breeziness to the region along with a slight cooldown.

&&

.DISCUSSION...
A band of mid-/upper-level cloudiness continues to spread northeastward from the Pacific, ahead of a storm system off the coast of northern California. Little change in temperatures compared to yesterday is expected, as more substantial height falls and low-level cooling remains displaced to the west today. Should see highs top out between 85-90 degrees across most of the lower desert locations.

The more significant impact will be the increasing wind speeds across the area. Forecast models indicate a significant strengthening in flow within the H5-7 layer will occur this afternoon as the upper-level disturbance accelerates east of the area. Diurnal mixing beneath the increasing flow aloft, along with a tightening gradient in response to rapid pressure falls across the eastern Great Basin and northern Rockies, will result in increasing wind speeds this afternoon. The most notable signal for strong winds remains across southeast California into the lower Colorado River Valley, where gusts in excess of 40 mph will be possible this afternoon. Breezy conditions are still expected across southwest/south-central Arizona, where gusts of 25-30 mph are forecast to occur. This will be enough to generate at least patchy blowing dust across the lower deserts this afternoon. Additionally, elevated to critical fire weather conditions remain a concern area-wide, with a Red Flag Warning in effect for southern Gila County today.

A significant cooldown into Tuesday can be expected as a cold

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

front moves eastward overnight. Highs 3-8 degrees below normal can be expected, with highs in the upper 70s forecast across the lower deserts. Transient shortwave ridging will build across the region by mid-week, before a deeper and slower-moving storm system evolves along the Pacific coast. Moisture will still be lacking west of the Continental Divide, with the primary effect being another increase in winds on Thursday/Friday and a minor cooldown. With limited moisture, precipitation chances will remain low across most of the forecast area, but a very slight chance of showers may clip southern Gila County Friday afternoon and evening. A general weakening of westerlies aloft is forecast to occur in the wake of the departing storm system into next weekend, resulting in another warming trend and perhaps a more prolonged period of weaker wind speeds across the Southwest.

&&

.AVIATION...

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

The approach and passage of a dry cold front will lead to strengthening southwesterly flow aloft. By late morning/midday, the southwesterly winds will begin to mix to the surface. Anticipate frequent gusts of 20-25 kts after 19Z with occasional gusts to 30 kts (mainly west and south of metro Phoenix). Thick mid to high clouds (bases AOA FL150) will decrease from west to east after 02Z. The front is anticipated to pass across metro Phoenix in the 05Z-07Z time frame. There is a possibility of a brief period of south and southeast winds just before the front moves through. Confidence in that scenario is too low to reflect in the TAFs. Slantwise visibilities may be impacted late this afternoon with lofted dust from California and southwest Arizona.

Southeast California/Southwest Arizona including KIPL and KBLH:
The approach and passage of a dry cold front will lead to strengthening southwesterly flow at the surface and aloft as the day progresses. Anticipate period of strongest winds to be in the 21Z-03Z time frame with frequent gusts of 30-35 kts and occasional gusts of 35-40 kts. Anticipate areas of blowing dust causing reduced visibilities below 10SM at times during the period of strongest winds. Could see brief periods of 3SM (most likely over/near the Imperial Valley). Otherwise, thick mid-high clouds (bases AOA FL150) will decrease from west to east after 21Z.

Aviation Discussion not updated for amended TAFs.

&&

.FIRE WEATHER...

ELEVATED FIRE DANGER TODAY across the forecast area due to strong winds, low relative humidity and dry fuels. Red Flag Warning is in effect for AZ Zone 133. Portions of southeast California will flirt with critical conditions for several hours due to very strong winds but humidities will be somewhat higher than in

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

Arizona.

Wednesday through Sunday:

Familiar April conditions will continue with periods of breezy to windy conditions as well as rather low minimum humidities and modest overnight recovery. Thursday will be the next day of most concern for conditions to threaten critical fire weather thresholds. At this time, the higher terrain of south-central AZ has the best chance of reaching thresholds with more marginal potential elsewhere.

&&

.SPOTTER INFORMATION STATEMENT...

Spotters are encouraged to report dense blowing dust next week.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...Red Flag Warning from 11 AM this morning to 8 PM MST this evening for AZZ133.

Wind Advisory from 2 PM this afternoon to 11 PM MST this evening for AZZ530.

CA...Wind Advisory from 2 PM this afternoon to 11 PM PDT this evening for CAZ560>570.

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DISCUSSION...Rogers

AVIATION...AJ

FIRE WEATHER...AJ

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213
FXUS66 KSGX 161638
AFDSGX

Area Forecast Discussion
National Weather Service San Diego CA
938 AM PDT Mon Apr 16 2018

.SYNOPSIS...

Onshore flow continues to increase through this evening. This will bring lower temperatures...increasing low clouds west of the mountains and a slight chance of light showers near the mountains late this afternoon into tonight. It will also bring strong, gusty west winds in the mountains and deserts through late tonight. Dry with weaker winds and a warming trend for Tuesday and Wednesday. Another round of cooling with periods of strong and gusty west winds for the mountains and deserts Wednesday night into Thursday night. There is also a slight chance of light showers along and west of the mountains Thursday. Dry with a warming trend for Friday into next weekend with weaker winds.

&&

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

This morning...temperatures continue the downward trend and are currently several degrees lower than at this time yesterday. Sfc pressure gradients are continuing to trend stronger onshore and are currently 15.0 mb SAN-TPH and 6.6 mb SAN-TRM. The winds have increased from the southwest with several locations in the mountains and deserts currently reporting wind gusts of 35 mph or more. The highest gust in the last 12 hours is 58 mph at the top of Mount Laguna in San Diego County. It occurred at around 6:50 am. The winds will gradually strengthen and spread into the deserts through this morning. The strongest and most widespread winds are expected this afternoon and evening...weakening late tonight into early Tuesday.

In addition to the strong westerly winds, the low pressure system now moving inland along the West Coast will spread cooling inland today. Areas of low clouds will cover portions of the coastal areas and valleys inland to the mountain slopes as the marine layer deepens. There is also a slight chance of light showers...mainly near the mountains...late this afternoon into tonight.

Dry weather with weaker winds will follow for Tuesday into Wednesday as the low pressure trough moves east and a weak ridge of high pressure moves in from the west. Warming for coastal and valley areas on Tuesday will expand into the mountains and deserts

April 16, 2018 Exceptional Event, Imperial County
on Wednesday.

Another low pressure system moving inland through California will bring another round of strong onshore flow, with cooling and periods of strong, gusty west winds for the mountains and deserts Wednesday night into Thursday night. There is also a slight chance of light showers along and west of the mountains Thursday.

Dry weather with a warming trend will following for Friday through next weekend as a weak ridge of high pressure sets up over the west coast. Periods of gusty north to northeast winds near the coastal foothills are possible for Friday into Saturday morning as a sfc high moves into the Great Basin, setting up weak offshore pressure gradients.

&&

.AVIATION...

161610Z...COAST/VALLEYS/COASTAL SLOPES...BKN-SCT LOW CLOUDS BASED AROUND 2500 FEET MSL WITH BASES RISING TO AROUND 3500- 4500 FEET MSL MIDDAY. HIGHER TERRAIN BELOW 5500 FEET MSL OBSCURED IN CLOUDS AND ISOLATED SHOWERS. SKIES WILL CLEAR FROM NORTH TO SOUTH TODAY, EXPECIALLY NEAR THE COAST IN THE AFTERNOON. RISK OF BKN LOW CLOUDS THIS AFTERNOON AT KSAN IS LOW-MODERATE, SO THE CONFIDENCE IN THE FORECAST OF ONLY SCT LOW CLOUDS THIS AFTERNOON IS MODERATE TO HIGH.

DESERT SLOPES/DESERTS...WESTERLY WINDS OVER THE RIDGES AND UPPER DESERT SLOPES 30-50KT WITH ISOLATED HIGHER GUSTS TODAY INTO TONIGHT. WINDS WILL CREATE STRONG UDDFS AND WIND SHEAR ABOVE AND NEAR THE DESERT FOOTHILLS AND LOCAL VIS BLO 3SM IN DUST ON THE DESERT FLOOR. BKN CLOUDS AOA FL200 OTHERWISE SCT WAVE CLOUDS NEAR FL080-120 ARE POSSIBLE, MAINLY OVER THE DESERTS.

&&

.MARINE...

WEST-NORTHWEST WINDS WILL INCREASE THIS MORNING AND NORTHWEST SWELL WILL INCREASE TODAY AND TONIGHT, CREATING HAZARDOUS BOATING CONDITIONS. CHECK THE SMALL CRAFT ADVISORY FOR DETAILS. WINDS WILL DECREASE RAPIDLY EARLY TUESDAY WHILE SWELL MORE GRADUALLY SUBSIDES LATER TUESDAY. AFTER NO FORECAST HAZARDOUS CONDITIONS TUESDAY INTO WEDNESDAY, STRONG WINDS AND HIGHER SEAS WILL RETURN LATE WEDNESDAY THROUGH THURSDAY.

&&

.SKYWARN...

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

&&

April 16, 2018 Exceptional Event, Imperial County

Appendix A

.SGX WATCHES/WARNINGS/ADVISORIES...
 CA...High Wind Warning until 5 AM PDT Tuesday 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 Tuesday 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...PG
 AVIATION/MARINE...Small

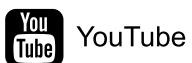
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916
FXUS65 KPSR 161658
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
958 AM MST Mon Apr 16 2018

.SYNOPSIS...A weather system moving across the western U.S. will bring increasing breeziness, areas of blowing dust, and elevated to critical fire weather conditions to the region. A significant but short-lived cooling trend will occur into Tuesday, before temperatures warm back to near seasonal normals mid-week. A second dry storm system will affect the Southwest Thursday and Friday, bringing another round of breeziness to the region along with a slight cooldown.

&&

.DISCUSSION...

Latest satellite imagery shows thickening mid and high clouds advancing out ahead of the upstream shortwave trough. Surface dewpoints are generally in the teens around the area, so no measurable rain is expected. However, the large dewpoint depressions will promote virga and pockets of stronger winds. Windy conditions are expected to become more widespread later in the afternoon as the mixed layer increases and stronger winds aloft are realized at the surface through momentum transfer.

&&

.PREVIOUS DISCUSSION...

A band of mid-/upper-level cloudiness continues to spread northeastward from the Pacific, ahead of a storm system off the coast of northern California. Little change in temperatures compared to yesterday is expected, as more substantial height falls and low-level cooling remains displaced to the west today. Should see highs top out between 85-90 degrees across most of the lower desert locations.

The more significant impact will be the increasing wind speeds across the area. Forecast models indicate a significant strengthening in flow within the H5-7 layer will occur this afternoon as the upper-level disturbance accelerates east of the area. Diurnal mixing beneath the increasing flow aloft, along with a tightening gradient in response to rapid pressure falls across the eastern Great Basin and northern Rockies, will result in increasing wind speeds this afternoon. The most notable signal for strong winds remains across southeast California into the lower Colorado River Valley, where gusts in excess of 40 mph will be possible this afternoon. Breezy conditions are still expected across southwest/south-central Arizona, where gusts of 25-30 mph

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

are forecast to occur. This will be enough to generate at least patchy blowing dust across the lower deserts this afternoon. Additionally, elevated to critical fire weather conditions remain a concern area-wide, with a Red Flag Warning in effect for southern Gila County today.

A significant cooldown into Tuesday can be expected as a cold front moves eastward overnight. Highs 5-8 degrees below normal can be expected, with highs in the upper 70s forecast across the lower deserts. Transient shortwave ridging will build across the region by mid-week, before a deeper and slower-moving storm system evolves along the Pacific coast. Moisture will still be lacking west of the Continental Divide, with the primary effect being another increase in winds on Thursday/Friday and a minor cooldown. With limited moisture, precipitation chances will remain low across most of the forecast area, but a very slight chance of showers may clip southern Gila County Friday afternoon and evening. A general weakening of westerlies aloft is forecast to occur in the wake of the departing storm system into next weekend, resulting in another warming trend and perhaps a more prolonged period of weaker wind speeds across the Southwest.

&&

.AVIATION...

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

The approach and passage of a dry cold front will lead to strengthening southwesterly flow aloft. By late morning/midday, the southwesterly winds will begin to mix to the surface. Anticipate frequent gusts of 20-25 kts after 19Z with occasional gusts to 30 kts (mainly west and south of metro Phoenix). Thick mid to high clouds (bases AOA FL150) will decrease from west to east after 02Z. The front is anticipated to pass across metro Phoenix in the 05Z-07Z time frame. There is a possibility of a brief period of south and southeast winds just before the front moves through. Confidence in that scenario is too low to reflect in the TAFs. Slantwise visibilities may be impacted late this afternoon with lofted dust from California and southwest Arizona.

Southeast California/Southwest Arizona including KIPL and KBLH:
The approach and passage of a dry cold front will lead to strengthening southwesterly flow at the surface and aloft as the day progresses. Anticipate period of strongest winds to be in the 21Z-03Z time frame with frequent gusts of 30-35 kts and occasional gusts of 35-40 kts. Anticipate areas of blowing dust causing reduced visibilities below 10SM at times during the period of strongest winds. Could see brief periods of 3SM (most likely over/near the Imperial Valley). Otherwise, thick mid-high clouds (bases AOA FL150) will decrease from west to east after 21Z.

Aviation Discussion not updated for amended TAFs.

&&

.FIRE WEATHER...

ELEVATED FIRE DANGER TODAY across the forecast area due to strong winds, low relative humidity and dry fuels. Red Flag Warning is in effect for AZ Zone 133. Portions of southeast California will flirt with critical conditions for several hours due to very strong winds but humidities will be somewhat higher than in Arizona.

Wednesday through Sunday:

Familiar April conditions will continue with periods of breezy to windy conditions as well as rather low minimum humidities and modest overnight recovery. Thursday will be the next day of most concern for conditions to threaten critical fire weather thresholds. At this time, the higher terrain of south-central AZ has the best chance of reaching thresholds with more marginal potential elsewhere.

&&

.SPOTTER INFORMATION STATEMENT...

Spotters are encouraged to report dense blowing dust.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...Red Flag Warning until 8 PM MST this evening for AZZ133.

Wind Advisory from 2 PM this afternoon to 11 PM MST this evening for AZZ530.

CA...Wind Advisory from 2 PM this afternoon to 11 PM PDT this evening for CAZ560>570.

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DISCUSSION...Hirsch

PREVIOUS DISCUSSION...Rogers

AVIATION...AJ

FIRE WEATHER...AJ

**IOWA STATE
UNIVERSITY**

College of Ag

Department of Agronomy

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FXUS66 KSGX 161701 CCA
AFDSGX

Area Forecast Discussion...CORRECTED
National Weather Service San Diego CA
1001 AM PDT Mon Apr 16 2018

.SYNOPSIS...

Onshore flow continues to increase through this evening. This will bring lower temperatures...increasing low clouds west of the mountains and a slight chance of light showers near the mountains late this afternoon into tonight. It will also bring strong, gusty west winds in the mountains and deserts through late tonight. Dry with weaker winds and a warming trend for Tuesday and Wednesday. Another round of cooling with periods of strong and gusty west winds for the mountains and deserts Wednesday night into Thursday night. There is also a slight chance of light showers along and west of the mountains Thursday. Dry with a warming trend for Friday into next weekend with weaker winds.

&&

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

This morning...temperatures continue the downward trend and are currently several degrees lower than at this time yesterday. Sfc pressure gradients are continuing to trend stronger onshore and are currently 15.0 mb SAN-TPH and 6.6 mb SAN-TRM. The winds have increased from the southwest with several locations in the mountains and deserts currently reporting wind gusts of 35 mph or more. The highest gust in the last 12 hours is 58 mph at the top of Mount Laguna in San Diego County. It occurred at around 6:50 am. The winds will gradually strengthen and spread into the deserts through this morning. The strongest and most widespread winds are expected this afternoon and evening...weakening late tonight into early Tuesday.

In addition to the strong westerly winds, the low pressure system now moving inland along the West Coast will spread cooling inland today. Areas of low clouds will cover portions of the coastal areas and valleys inland to the mountain slopes as the marine layer deepens. There is also a slight chance of light showers...mainly near the mountains...late this afternoon into tonight.

Dry weather with weaker winds will follow for Tuesday into Wednesday as the low pressure trough moves east and a weak ridge of high pressure moves in from the west. Warming for coastal and valley areas on Tuesday will expand into the mountains and deserts

April 16, 2018 Exceptional Event, Imperial County
on Wednesday.

Another low pressure system moving inland through California will bring another round of strong onshore flow, with cooling and periods of strong, gusty west winds for the mountains and deserts Wednesday night into Thursday night. There is also a slight chance of light showers along and west of the mountains Thursday.

Dry weather with a warming trend will following for Friday through next weekend as a weak ridge of high pressure sets up over the west coast. Periods of gusty north to northeast winds near the coastal foothills are possible for Friday into Saturday morning as a sfc high moves into the Great Basin, setting up weak offshore pressure gradients.

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.AVIATION...

161610Z...Coast/Valleys/Coastal Slopes...BKN-SCT low clouds based around 2500 ft MSL with bases rising to around 3500-4500 ft MSL by mid-day. Higher terrain below 5500 ft MSL obscures in clouds and isolated light showers. Skies will clear from north to south today, especially near the coast in the afternoon. Rish of BKN low clouds at KSAN this afternoon is low-moderate, so confidence in the forecast of only SCT low clouds this afternoon is moderate to high.

Desert slopes/Deserts...Westerly winds over the ridges and upper desert slopes 30-50 kt with isolated higher gusts today into tonight. Winds will create strong uddfs and wind shear above and near the desert foothills and local vis blo 3sm in dust on the desert floor. BKN clouds aoa FL200 otherwise SCT wave clouds near FL080-120 are possible, mainly over the deserts.

&&

.MARINE...

West-northwest winds will increase this morning and northwest swell will increase today and tonight, creating hazardous boating conditions. Check the small craft advisory for details. Winds will Decrease rapidly early Tuesday while swell more gradually subsides later Tuesday. After no forecast hazardous conditions Tuesday into Wednesday, strong winds and higher seas will return late Wednesday through Thursday.

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.SKYWARN...

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

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April 16, 2018 Exceptional Event, Imperial County

Appendix A

.SGX WATCHES/WARNINGS/ADVISORIES...
 CA...High Wind Warning until 5 AM PDT Tuesday 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 Tuesday 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...PG
 AVIATION/MARINE...Small

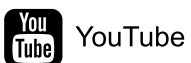
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WWUS75 KPSR 161905
NPWPSR

URGENT - WEATHER MESSAGE
National Weather Service Phoenix AZ
1205 PM MST Mon Apr 16 2018

AZZ530-CAZ560>570-170600-
/O.CON.KPSR.WI.Y.0011.180416T2100Z-180417T0600Z/

Parker Valley-Joshua Tree NP West-Joshua Tree NP East-
Imperial County Southwest-Salton Sea-Chuckwalla Mountains-
Imperial County Southeast-Imperial County West-Imperial Valley-
Chiriaco Summit-Palo Verde Valley-Chuckwalla Valley-
Including the cities of Parker, Ehrenberg, Cottonwood Visitor,
Lost Horse-Keys Village, Mountain Spring, Desert Shores,
Imperial Hot Mineral Springs, Winterhaven, Coolidge Springs,
Salton City, Winona, Coyote Wells, Ocotillo, Plaster City,
El Centro, Calexico, Alamo, Brawley, Chiriaco Summit,
Martinez Lake, Blythe, Palo Verde, Ripley, and Midland
1205 PM MST Mon Apr 16 2018 /1205 PM PDT Mon Apr 16 2018/

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

- * AFFECTED AREA...All of Southeast California and far western Arizona along the Colorado River.
- * TIMING...Winds will increase this afternoon. Windy conditions are expected through the late evening.
- * WINDS...Westerly winds of 25 to 35 mph with gusts in excess of 40 mph.
- * IMPACTS...Difficulty driving due to crosswinds, especially on roads that run north/south. Winds may cause areas of blowing dust that can reduce visibility. Unsecured objects may become airborne.

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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NPWSGX

URGENT - WEATHER MESSAGE
National Weather Service San Diego CA
109 PM PDT Mon Apr 16 2018

...STRONG AND GUSTY WEST WINDS FOR THE MOUNTAINS AND DESERTS
THROUGH LATE TONIGHT...

CAZ062-170500-
/O.CON.KSGX.HW.W.0005.000000T0000Z-180417T1200Z/

San Diego County Deserts-
Including the city of Borrego Springs
109 PM PDT Mon Apr 16 2018

...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY...

- * Winds...Areas of west to northwest winds 30 to 40 mph with gusts up to 65 mph.
- * Timing...The strongest and most widespread winds are expected this afternoon and evening. The winds will gradually subside late tonight and early Tuesday.
- * Visibility...Reduced at times in blowing sand and blowing dust.
- * Impacts...The winds will make driving difficult...especially for motorists with high profile vehicles. There will also be areas of blowing dust and sand which will reduce visibility at times. Watch for broken tree limbs and other debris.
- * Outlook...Another round of strong west winds is expected for Wednesday night into Thursday night.
- * Reports...Please report wind damage to law enforcement.

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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CAZ055-056-058-170500-
/O.CON.KSGX.HW.W.0005.000000T0000Z-180417T1200Z/

San Bernardino County Mountains-Riverside County Mountains-
San Diego County Mountains-

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

Including the cities of Crestline, Lake Arrowhead, Big Bear City, Big Bear Lake, Running Springs, Wrightwood, Idyllwild-Pine Cove, and Julian

109 PM PDT Mon Apr 16 2018

...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY...

- * Winds...Areas of southwest to west winds 30 to 40 mph with gusts up to 65 mph. Isolated gusts to 80 mph.
- * Timing...The most widespread, strong and possibly damaging winds are expected this afternoon into this evening. The winds will weaken late tonight.
- * Location...Near mountain ridge tops and along desert mountain slopes and passes.
- * Impacts...The winds will make driving difficult...especially for motorists with high profile vehicles. This will impact Interstate 8 through the San Diego County mountains...and Interstate 15 through the Cajon Pass. Watch for broken tree limbs and other debris.
- * Outlook...Another round of strong west winds is expected for Wednesday night into Thursday night.
- * Reports...Please report wind damage to law enforcement.

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 70 mph or more can lead to property damage.

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CAZ060-065-170500-

/O.CON.KSGX.HW.W.0005.00000T0000Z-180417T1200Z/

Apple and Lucerne Valleys-San Gorgonio Pass Near Banning- Including the cities of Victorville, Hesperia, Apple Valley, Banning, and Desert Hot Springs

109 PM PDT Mon Apr 16 2018

...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY...

- * Winds...Areas of southwest to west winds 30 to 40 mph with gusts up to 65 mph. Isolated gusts to 75 mph near the foothills of the mountains and in the northern Coachella Valley below the San Gorgonio Pass.
- * Timing...The most widespread, strong and possibly damaging winds are expected this afternoon into this evening. The winds will

April 16, 2018 Exceptional Event, Imperial County

weaken late tonight.

- * Visibility...Reduced at times in blowing sand and blowing dust.
- * Impacts...The winds will make driving difficult...especially for motorists with high profile vehicles. This will impact portions of Interstate 10 through the San Gorgonio Pass towards the Coachella Valley and Interstate 15 across desert areas north of the Cajon Pass. Areas of blowing dust and sand will reduce visibility at times. Watch for broken tree limbs and other debris.
- * Outlook...Another round of strong west winds is expected for Wednesday night into Thursday night.
- * Reports...Please report wind damage to law enforcement.

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 70 mph or more can lead to property damage.

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CAZ061-170500-

/O.CON.KSGX.HW.W.0005.00000T0000Z-180417T1200Z/

Coachella Valley-

Including the city of Cathedral City

109 PM PDT Mon Apr 16 2018

...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY...

- * Winds...Areas of west to northwest winds 20 to 30 mph with gusts to 45 mph.
- * Timing...The strongest and most widespread winds are expected this afternoon and evening. The winds will weaken late tonight and early Tuesday.
- * Location...Strongest winds north and east of Interstate 10.
- * Visibility...Reduced at times in blowing sand and blowing dust.
- * Impacts...The winds will make driving difficult...especially for motorists with high profile vehicles. There will also be areas of blowing dust and sand which will reduce visibility at times. Watch for broken tree limbs and other debris.
- * Outlook...Another round of strong northwest winds is expected for Wednesday night into Thursday night.

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 162037
AFDSGX

Area Forecast Discussion
National Weather Service San Diego CA
137 PM PDT Mon Apr 16 2018

.SYNOPSIS...

Onshore flow continues to increase through this evening. This will bring strong, gusty west winds in the mountains and deserts through late tonight. It will also bring lower temperatures...increasing low clouds west of the mountains...and a slight chance of light showers near the mountains late this afternoon into tonight. Dry with weaker winds and a warming trend for Tuesday and Wednesday. Another round of cooling with periods of strong and gusty west winds for the mountains and deserts Wednesday night into Thursday night. There is also a slight chance of light showers along and west of the mountains Thursday. Dry with a warming trend for Friday into next weekend with weaker winds.

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

This afternoon...the sfc pressure gradients remain onshore with 15.2 mb SAN-TPH and 7.7 mb SAN-TRM. As a result, strong westerly winds continue across the region. Several mountain locations have reported wind gusts of 50 mph or greater today and 2 locations in the last hour. The winds will continue to strengthen, and the strongest and most widespread winds are expected this afternoon and evening...weakening late tonight into early Tuesday.

In addition to the strong westerly winds, the low pressure system moving inland along the West Coast is spreading cooler air inland. Temperatures west of the mtns are as much as 21 degrees lower than this time yesterday. Areas of low clouds will cover portions of the coastal areas and valleys inland to the mountain slopes as the marine layer deepens. There is also a slight chance of light showers...mainly near the mountains...late this afternoon into tonight. Currently, there are weak radar echoes near the Channel Islands which could make their way southeast.

Dry weather with weaker winds will follow for Tuesday into Wednesday as the low pressure trough moves east and a weak ridge of high pressure moves in from the west. Warming for coastal and valley areas on Tuesday will expand into the mountains and deserts on Wednesday.

Another low pressure system moving inland through California will

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

bring another round of strong onshore flow, with cooling and periods of strong, gusty west winds for the mountains and deserts Wednesday night into Thursday night. There is also a chance of light showers along and west of the mountains Thursday.

Dry weather with a warming trend will following for Friday through next weekend as a weak ridge of high pressure sets up over the west coast. Periods of gusty north to northeast winds near the coastal foothills are possible for Friday into Saturday morning as a sfc high moves into the Great Basin, setting up weak offshore pressure gradients.

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.AVIATION...

162010Z...Coast/Valleys/Coastal Slopes...SCT low clouds based around 2500-3500 feet MSL with higher terrain below 5500 ft MSL obscured at times in clouds and isolated light showers into tonight. Risk of BKN low clouds at KSAN overnight at times is low-moderate, so confidence in the forecast of mainly SCT low clouds overnight is moderate to high for KSAN.

Desert slopes/Deserts...Westerly winds over the ridges and upper desert slopes 30-50 kt with isolated higher gusts into tonight. Winds will create strong uddfs and wind shear above and near the desert foothills and local vis blo 3sm in dust on the desert floor is expected. BKN clouds aoa FL200 otherwise SCT wave clouds near FL080-120 are possible, mainly over the deserts.

&&

.MARINE...

West-northwest winds and northwest swell will increase into tonight, creating hazardous boating conditions. Check the small craft advisory for details. Winds will decrease rapidly early Tuesday while swell will more gradually subside later Tuesday. Afterward, no forecast hazardous conditions late Tuesday into Wednesday. Strong winds and higher seas will return late Wednesday through Thursday.

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.SKYWARN...

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

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...High Wind Warning until 5 AM PDT Tuesday 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 Tuesday for Coastal Waters

April 16, 2018 Exceptional Event, Imperial County

Appendix A

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...PG

AVIATION/MARINE...Small

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FXUS65 KPSR 162109
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
209 PM MST Mon Apr 16 2018

.SYNOPSIS...A weather system moving across the western U.S. will bring increasing breeziness, areas of blowing dust, and elevated to critical fire weather conditions to the region. A significant but short-lived cooling trend will occur into Tuesday, before temperatures warm back to near seasonal normals midweek. A second dry storm system will affect the Southwest Thursday and Friday, bringing another round of breeziness to the region along with a slight cooldown.

&&

.DISCUSSION...

Latest water vapor imagery shows a well-defined vort max near the Bay Area. Meanwhile, thick mid and high clouds out ahead of the upstream shortwave trough have persisted across the Desert Southwest this afternoon. Latest radar imagery shows some weak returns, but with dewpoints generally in the teens, it is unlikely that any precipitation is reaching the ground. Virga is possible with this cloud deck and given the dry sub-cloud environment, isolated pockets of gusty winds/downrafts will result.

The cloud cover has also inhibited insolation and mixing, so the pressure gradient winds have not been realized just yet. However, latest runs of the HRRR continue to indicate that windy conditions will develop, particularly across southeastern California and portions of Pinal County. These are dust prone areas, and there certainly is the potential for patchy blowing dust during the period of peak winds into this evening.

&&

.PREVIOUS DISCUSSION...

A significant cooldown into Tuesday can be expected as a cold front moves eastward overnight. Highs 5-8 degrees below normal can be expected, with highs in the upper 70s forecast across the lower deserts. Transient shortwave ridging will build across the region by mid-week, before a deeper and slower-moving storm system evolves along the Pacific coast. Moisture will still be lacking west of the Continental Divide, with the primary effect being another increase in winds on Thursday/Friday and a minor cooldown. With limited moisture, precipitation chances will remain low across most of the forecast area, but a very slight chance of showers may clip southern Gila County Friday afternoon and evening. A general weakening of westerlies aloft is forecast to

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

occur in the wake of the departing storm system into next weekend, resulting in another warming trend and perhaps a more prolonged period of weaker wind speeds across the Southwest.

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.AVIATION...

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

The approach and passage of a dry cold front will lead to strengthening southwesterly flow aloft. By late morning/midday, the southwesterly winds will begin to mix to the surface. Anticipate frequent gusts of 20-25 kts after 19Z with occasional gusts to 30 kts (mainly west and south of metro Phoenix). Thick mid to high clouds (bases AOA FL150) will decrease from west to east after 02Z. The front is anticipated to pass across metro Phoenix in the 05Z-07Z time frame. There is a possibility of a brief period of south and southeast winds just before the front moves through. Confidence in that scenario is too low to reflect in the TAFs. Slantwise visibilities may be impacted late this afternoon with lofted dust from California and southwest Arizona.

Southeast California/Southwest Arizona including KIPL and KBLH:
The approach and passage of a dry cold front will lead to strengthening southwesterly flow at the surface and aloft as the day progresses. Anticipate period of strongest winds to be in the 21Z-03Z time frame with frequent gusts of 30-35 kts and occasional gusts of 35-40 kts. Anticipate areas of blowing dust causing reduced visibilities below 10SM at times during the period of strongest winds. Could see brief periods of 3SM (most likely over/near the Imperial Valley). Otherwise, thick mid-high clouds (bases AOA FL150) will decrease from west to east after 21Z.

Aviation Discussion not updated for amended TAFs.

&&

.FIRE WEATHER...

Thursday through Monday:

Typical springtime conditions will continue with periods of breezy to windy conditions as well as rather low minimum humidities, modest overnight recovery and no chance of precipitation. Thursday will be the next day of most concern, with RH and wind flirting with critical thresholds. At this time, the higher terrain of south-central AZ has the best chance of reaching thresholds with more marginal potential elsewhere. Thereafter, latest guidance suggests a warming trend with above normal temperatures returning by Saturday and continuing into early next week.

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.SPOTTER INFORMATION STATEMENT...

Spotters are encouraged to report dense blowing dust.

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April 16, 2018 Exceptional Event, Imperial County**Appendix A**

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...Red Flag Warning until 8 PM MST this evening for AZZ133.

Wind Advisory until 11 PM MST this evening for AZZ530.

CA...Wind Advisory until 11 PM PDT this evening for CAZ560>570.

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DISCUSSION...Hirsch

PREVIOUS DISCUSSION...Rogers

AVIATION...AJ

FIRE WEATHER...AJ/Hirsch

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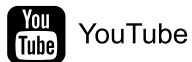
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FXUS65 KPSR 162131
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
231 PM MST Mon Apr 16 2018

.UPDATE...Updated Aviation and Fire Weather Discussions.

&&

.SYNOPSIS...A weather system moving across the western U.S. will bring increasing breeziness, areas of blowing dust, and elevated to critical fire weather conditions to the region. A significant but short-lived cooling trend will occur into Tuesday, before temperatures warm back to near seasonal normals midweek. A second dry storm system will affect the Southwest Thursday and Friday, bringing another round of breeziness to the region along with a slight cooldown.

&&

.DISCUSSION...
Latest water vapor imagery shows a well-defined vort max near the Bay Area. Meanwhile, thick mid and high clouds out ahead of the upstream shortwave trough have persisted across the Desert Southwest this afternoon. Latest radar imagery shows some weak returns, but with dewpoints generally in the teens, it is unlikely that any precipitation is reaching the ground. Virga is possible with this cloud deck and given the dry sub-cloud environment, isolated pockets of gusty winds/downdrafts will result.

The cloud cover has also inhibited insolation and mixing, so the pressure gradient winds have not been realized just yet. However, latest runs of the HRRR continue to indicate that windy conditions will develop, particularly across southeastern California and portions of Pinal County. These are dust prone areas, and there certainly is the potential for patchy blowing dust during the period of peak winds into this evening.

&&

.PREVIOUS DISCUSSION...
A significant cooldown into Tuesday can be expected as a cold front moves eastward overnight. Highs 5-8 degrees below normal can be expected, with highs in the upper 70s forecast across the lower deserts. Transient shortwave ridging will build across the region by mid-week, before a deeper and slower-moving storm system evolves along the Pacific coast. Moisture will still be lacking west of the Continental Divide, with the primary effect being another increase in winds on Thursday/Friday and a minor cooldown.

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

With limited moisture, precipitation chances will remain low across most of the forecast area, but a very slight chance of showers may clip southern Gila County Friday afternoon and evening. A general weakening of westerlies aloft is forecast to occur in the wake of the departing storm system into next weekend, resulting in another warming trend and perhaps a more prolonged period of weaker wind speeds across the Southwest.

&&

.AVIATION...

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

There are major aviation weather concerns for this afternoon with strong WSW winds and gusts up to 20-30 kts through about 06z tonight. After that time, westerly winds will continue but at much weaker speeds of 7 to 13 kts. There will be periods of thick mid to high level clouds with bases AOA 15k feet. Otherwise, any suspended dust may create slantwise visibility issues, especially by the later afternoon.

Southeast California/Southwest Arizona including KIPL and KBLH: Strong and gusty westerly winds will be a serious aviation weather concern this afternoon with sustained WSW speeds over 20 kts and gusts as strong as 45 kts. The strongest winds will prevail through about 05z before tapering slightly, and eventually becoming much more typical (12 kts or less) by around 12z tomorrow morning. There will be areas of blowing dust that are likely to reduce visibility down to a few miles, especially for locations further west from the Colorado River. In addition, suspended dust will degrade slantwise visibility.

Aviation Discussion not updated for amended TAFs.

&&

.FIRE WEATHER...

Thursday through Monday:

Typical springtime conditions will continue with periods of breezy to windy conditions as well as rather low minimum humidities, modest overnight recovery and no chance of precipitation. Thursday will be the next day of most concern, with RH and wind flirting with critical thresholds. At this time, the higher terrain of south-central AZ has the best chance of reaching thresholds with more marginal potential elsewhere. Thereafter, latest guidance suggests a warming trend with above normal temperatures returning by Saturday and continuing into early next week.

&&

.SPOTTER INFORMATION STATEMENT...

Spotters are encouraged to report dense blowing dust.

&&

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...Red Flag Warning until 8 PM MST this evening for AZZ133.

Wind Advisory until 11 PM MST this evening for AZZ530.

CA...Wind Advisory until 11 PM PDT this evening for CAZ560>570.

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DISCUSSION...Hirsch

PREVIOUS DISCUSSION...Rogers

AVIATION...Deemer

FIRE WEATHER...AJ/Hirsch

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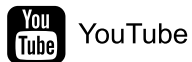
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343

NWUS56 KSGX 170119

LSRSGX

PRELIMINARY LOCAL STORM REPORT
NATIONAL WEATHER SERVICE SAN DIEGO CA
619 PM PDT MON APR 16 2018

..TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...
..DATE...	...MAG....	..COUNTY LOCATION..ST..	...SOURCE....
	..REMARKS..		

0608 PM	NON-TSTM WND GST THERMAL AIRPORT	33.63N 116.16W
04/16/2018	M47 MPH RIVERSIDE CA	ASOS

VISIBILITY 1.5 MILES IN BLOWING DUST AND SAND.

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MJM

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530
WWUS75 KPSR 170215
NPWPSR

URGENT - WEATHER MESSAGE
National Weather Service Phoenix AZ
715 PM MST Mon Apr 16 2018

CAZ563-566-567-170600-
/O.NEW.KPSR.DU.Y.0008.180417T0215Z-180417T0600Z/
/O.CON.KPSR.WI.Y.0011.000000T0000Z-180417T0600Z/

Salton Sea-Imperial County West-Imperial Valley-
Including the cities of Desert Shores, Coolidge Springs,
Salton City, Winona, Coyote Wells, Ocotillo, Plaster City,
El Centro, Calexico, Alamo, and Brawley
715 PM PDT Mon Apr 16 2018

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

The National Weather Service in Phoenix has issued a Blowing Dust
Advisory, which is in effect until 11 PM PDT this evening.

- * AFFECTED AREA...Wind advisory for all of Southeast California
and far western Arizona along the Colorado River. Blowing dust
advisory for areas around the Salton Sea and West-Imperial
Valley.
- * TIMING...Windy conditions are expected to continue through the
late evening.
- * WINDS...Westerly winds of 25 to 35 mph with gusts in excess of
40 mph.
- * VISIBILITY...Generally 1 to 5 miles, but occasionally lower than
1 mile in isolated dust channels.
- * Impacts...Difficulty driving due to crosswinds, especially on
roads that run north/south. Winds may cause areas of blowing
dust that can reduce visibility. Unsecured objects may become
airborne.

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.

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

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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AZZ530-CAZ560>562-564-565-568>570-170600-
/O.CON.KPSR.WI.Y.0011.000000T0000Z-180417T0600Z/

Parker Valley-Joshua Tree NP West-Joshua Tree NP East-
Imperial County Southwest-Chuckwalla Mountains-
Imperial County Southeast-Chiriaco Summit-Palo Verde Valley-
Chuckwalla Valley-

Including the cities of Parker, Ehrenberg, Cottonwood Visitor,
Lost Horse-Keys Village, Mountain Spring,
Imperial Hot Mineral Springs, Winterhaven, Chiriaco Summit,
Martinez Lake, Blythe, Palo Verde, Ripley, and Midland
715 PM MST Mon Apr 16 2018 /715 PM PDT Mon Apr 16 2018/

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

- * AFFECTED AREA...All of Southeast California and far western Arizona along the Colorado River.
- * TIMING...Winds will increase this afternoon. Windy conditions are expected through the late evening.
- * WINDS...Westerly winds of 25 to 35 mph with gusts in excess of 40 mph.
- * IMPACTS...Difficulty driving due to crosswinds, especially on roads that run north/south. Winds may cause areas of blowing dust that can reduce visibility. Unsecured objects may become airborne.

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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NWUS56 KSGX 170233

LSRSGX

PRELIMINARY LOCAL STORM REPORT
NATIONAL WEATHER SERVICE SAN DIEGO CA
733 PM PDT MON APR 16 2018

..TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...
..DATE...	...MAG....	..COUNTY LOCATION..ST..	...SOURCE....
	..REMARKS..		

0725 PM	NON-TSTM WND GST 3 S	INDIO	33.68N 116.24W
04/16/2018	E50 MPH	RIVERSIDE	CA EMERGENCY MNGR

WORKERS BEING EVACUATED FROM COACHELLA
FESTIVAL SITE DUE TO STRONG WINDS/BLOWING
DUST.

&&

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415
WWUS76 KSGX 170320 AAC
NPWSGX

URGENT - WEATHER MESSAGE...UPDATED
National Weather Service San Diego CA
820 PM PDT Mon Apr 16 2018

...STRONG AND GUSTY WEST WINDS FOR THE MOUNTAINS AND DESERTS
THROUGH LATE TONIGHT...

CAZ062-171200-
/O.CON.KSGX.HW.W.0005.000000T0000Z-180417T1200Z/

San Diego County Deserts-
Including the city of Borrego Springs
820 PM PDT Mon Apr 16 2018

...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY...

- * Winds...Areas of west to northwest winds 30 to 40 mph with gusts up to 70 mph.
- * Timing...Strongest this evening before subsiding late.
- * Visibility...Less than a mile at times in blowing dust and sand.
- * Impacts...Difficult driving...especially for motorists with high profile vehicles. Reduced visibilities. Downed trees and power lines.
- * Outlook...Another round of strong west winds is expected for Wednesday night into Thursday night.
- * Reports...Peak winds through 8 PM included 70 mph at Volcan Mountain, 57 mph at Coachella, 56 mph at the Thermal Airport, and 52 mph at Palm Desert.

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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CAZ055-056-058-171200-
/O.CON.KSGX.HW.W.0005.000000T0000Z-180417T1200Z/

San Bernardino County Mountains-Riverside County Mountains-
San Diego County Mountains-
Including the cities of Crestline, Lake Arrowhead, Big Bear City,

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

Big Bear Lake, Running Springs, Wrightwood, Idyllwild-Pine Cove,
and Julian

820 PM PDT Mon Apr 16 2018

...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY...

- * Winds...Areas of southwest to west winds 30 to 40 mph with gusts up to 70 mph.
- * Timing...Strongest this evening before subsiding late.
- * Location...Near mountain ridge tops and along desert mountain slopes and passes.
- * Impacts...Difficult driving especially for motorists with high profile vehicles. This will impact Interstate 8 through the San Diego County mountains...and Interstate 15 through the Cajon Pass. Watch for broken tree limbs and other debris.
- * Outlook...Another round of strong west winds is expected for Wednesday night into Thursday night.
- * Reports...Peak winds through 8 PM included 70 mph at Volcan Mountain, 57 mph at Coachella, 56 mph at the Thermal Airport, and 52 mph at Palm Desert.

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 70 mph or more can lead to property damage.

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CAZ060-065-171200-

/O.CON.KSGX.HW.W.0005.00000T0000Z-180417T1200Z/

Apple and Lucerne Valleys-San Gorgonio Pass Near Banning-
Including the cities of Victorville, Hesperia, Apple Valley,
Banning, and Desert Hot Springs

820 PM PDT Mon Apr 16 2018

...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY...

- * Winds...West winds 30 to 40 mph with gusts to 70 mph.
- * Timing...Strongest this evening before subsiding late.
- * Visibility...Reduced at times in blowing sand and blowing dust.
- * Impacts...Difficult driving...especially for motorists with high profile vehicles. This will impact portions of Interstate 10 through the San Gorgonio Pass towards the Coachella Valley and

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

Interstate 15 across the high desert. Blowing dust and sand will reduce visibility at times. Watch for broken tree limbs and other debris.

- * Outlook...Another round of strong west winds is expected for Wednesday night into Thursday night.
- * Reports...Peak winds through 8 PM included 70 mph at Volcan Mountain, 57 mph at Coachella, 56 mph at the Thermal Airport, and 52 mph at Palm Desert.

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 70 mph or more can lead to property damage.

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CAZ061-171200-

/O.CON.KSGX.HW.W.0005.00000T0000Z-180417T1200Z/

Coachella Valley-

Including the city of Cathedral City

820 PM PDT Mon Apr 16 2018

...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 5 AM PDT TUESDAY...

- * Winds...West to northwest winds 20 to 30 mph with gusts to 65 mph.
- * Timing...Tonight.
- * Visibility...Reduced to less than a mile at times in blowing sand and blowing dust.
- * Impacts...The winds will make driving difficult...especially for motorists with high profile vehicles. There will also be areas of blowing dust and sand which will reduce visibility at times. Watch for broken tree limbs and other debris.
- * Outlook...Another round of strong northwest winds is expected for Wednesday night into Thursday night.
- * Reports...Peak winds through 8 PM included 70 mph at Volcan Mountain, 57 mph at Coachella, 56 mph at the Thermal Airport, and 52 mph at Palm Desert.

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 170343
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
845 PM MST Mon Apr 16 2018

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.SYNOPSIS...A weather system moving across the western U.S. will bring increasing breeziness, areas of blowing dust, and elevated to critical fire weather conditions to the region. A significant but short-lived cooling trend will occur into Tuesday, before temperatures warm back to near seasonal normals midweek. A second dry storm system will affect the Southwest Thursday and Friday, bringing another round of breeziness to the region along with a slight cooldown.

&&

.DISCUSSION...

A rather deep/cold upper low (for Mid-April) and associated sfc cold front that is now moving across SE CA are helping to mix strong winds aloft down to the sfc this evening across that region, with wind gusts as high as 50 mph being reported at this hour. These strong winds are also producing some blowing dust at this time across the Imperial Valley, with visibilities briefly as low as 1/2 mile being reported. On the other hand, winds across South-Central have been lighter than was expected, likely due to thick mid/high cloud cover inhibiting heating/mixing across the region this afternoon. Latest high-res HRRR output is showing that winds should slowly subside later tonight as nocturnal cooling allows the boundary layer to decouple somewhat from the stringer winds aloft. Winds are then expected to diminish further on Tuesday as the upper trof/strongest winds aloft begin to shift off to the east.

&&

.PREVIOUS DISCUSSION...

Latest water vapor imagery shows a well-defined vort max near the Bay Area. Meanwhile, thick mid and high clouds out ahead of the upstream shortwave trough have persisted across the Desert Southwest this afternoon. Latest radar imagery shows some weak returns, but with dewpoints generally in the teens, it is unlikely that any precipitation is reaching the ground. Virga is possible with this cloud deck and given the dry sub-cloud environment, isolated pockets of gusty winds/downrafts will result.

The cloud cover has also inhibited insolation and mixing, so the pressure gradient winds have not been realized just yet. However, latest runs of the HRRR continue to indicate that windy conditions

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

will develop, particularly across southeastern California and portions of Pinal County. These are dust prone areas, and there certainly is the potential for patchy blowing dust during the period of peak winds into this evening.

A significant cooldown into Tuesday can be expected as a cold front moves eastward overnight. Highs 5-8 degrees below normal can be expected, with highs in the upper 70s forecast across the lower deserts. Transient shortwave ridging will build across the region by mid-week, before a deeper and slower-moving storm system evolves along the Pacific coast. Moisture will still be lacking west of the Continental Divide, with the primary effect being another increase in winds on Thursday/Friday and a minor cooldown. With limited moisture, precipitation chances will remain low across most of the forecast area, but a very slight chance of showers may clip southern Gila County Friday afternoon and evening. A general weakening of westerlies aloft is forecast to occur in the wake of the departing storm system into next weekend, resulting in another warming trend and perhaps a more prolonged period of weaker wind speeds across the Southwest.

&&

.AVIATION...

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

A weather system passing to the north is expected to keep winds going from a westerly direction through the rest of tonight and through Tuesday. Drier air moving in from the west is expected to clear out the mid/high clouds that are now being seen over the region this evening.

Southeast California/Southwest Arizona including KIPL and KBLH: Strong and gusty westerly winds and areas of blowing dust will continue to be a serious aviation weather concern through the rest of this evening with sustained WSW speeds over 20 kts and gusts as strong as 45 kts. Winds are then expected to greatly diminish later tonight and early Tuesday as the sfc cold front now affecting the region moves off to the east, but with suspended dust likely degrading slantwise visibility into Tuesday morning.

Aviation Discussion not updated for amended TAFs.

&&

.FIRE WEATHER...

Thursday through Monday:

Typical springtime conditions will continue with periods of breezy to windy conditions as well as rather low minimum humidities, modest overnight recovery and no chance of precipitation. Thursday will be the next day of most concern, with RH and wind flirting with critical thresholds. At this time, the higher terrain of south-central AZ has the best chance of reaching thresholds with more marginal potential elsewhere. Thereafter, latest guidance

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

suggests a warming trend with above normal temperatures returning by Saturday and continuing into early next week.

&&

.SPOTTER INFORMATION STATEMENT...

Spotters are encouraged to report dense blowing dust.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...Wind Advisory until 11 PM MST this evening for AZZ530.

CA...Wind Advisory until 11 PM PDT this evening for CAZ560>570.

Blowing Dust advisory until 11 PM this evening for CAZ563-566-567.

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DISCUSSION...Percha

PREVIOUS DISCUSSION...Hirsch/Rogers

AVIATION...Percha

FIRE WEATHER...AJ/Hirsch

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FXUS66 KSGX 170448
AFDSGX

Area Forecast Discussion
National Weather Service San Diego CA
945 PM PDT Mon Apr 16 2018

.SYNOPSIS...

Our roller coaster Spring weather will continue for a while longer. Tuesday and Wednesday will be warmer with lighter winds, but it will turn windy and colder on Thursday as another strong trough moves across California. There is also be a slight chance of light showers along and west of the mountains Thursday. The weekend will be dry and warm with lighter winds.

&&

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

The winds blew hard in the mountains and the deserts this afternoon and evening with a peak gust of 70 mph at Volcan Mountain. Mountain waves crashed down the eastern mountains slopes and into the deserts floor of the Coachella Valley where northwest winds gusted to 58 mph at Coachella and 56 mph at Thermal. Blowing dust and sand reduced vis to less than a mile at Thermal this evening. Also, a long duration rotor set up over the Palm Springs Airport with east winds of 15-30 mph between 5 PM and 9 PM. The winds will remain strong through late evening, then gradually subside after midnight.

The trough axis passes tonight followed by zonal flow Tuesday and Wednesday for warmer days and lighter winds. But the roller coaster takes another big dip Thursday as yet another very strong 500 mb trough moves into California. This one will be similar to the previous two troughs and bring cool, windy weather and perhaps a few light showers along and west of the mountains. Very strong winds will once again impact the mountains and deserts with gusts of 50 to 70 mph.

The trough passes Friday and higher pressure aloft on Saturday and Sunday will bring dry, warm weather this weekend.

&&

.AVIATION...

170430Z...Coast/Valleys...Mostly SCT clouds will prevail with bases 2500-3500 ft MSL through Tue evening. Vis will be greater than 6 miles.

Mountains/Deserts...Strong west to northwest winds will continue but

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

very slowly decrease overnight. Areas of winds 20-35 kt with gusts 35-50 kt will become 15-25 kt with gusts 30-40 kt after 06Z Tue, then gusts will be mostly below 25 kt by 14Z Tue. Areas of vis below 3 miles will continue in blowing dust through 06Z Tue, becoming just local 06Z-14Z Tue. Mostly clear skies with unrestricted vis will prevail Tuesday and Tuesday evening.

&&

.MARINE...

Most wind gusts so far this afternoon and evening have been 20 to 25 knots, but some gusts between 25 and 30 knots should still occur overnight before decreasing early Tuesday morning. Combined seas of 6 to locally 10 feet will occur. Winds will increase again late Wednesday through Thursday, with gusts likely around 25 knots, with combined seas again 6 to locally 10 feet.

&&

.SKYWARN...

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

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...High Wind Warning until 5 AM PDT Tuesday 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 Tuesday 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...Moede

AVIATION/MARINE...Maxwell

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UNIVERSITY**

College of Ag

Department of Agronomy

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471
WWUS75 KPSR 170553
NPWPSR

URGENT - WEATHER MESSAGE
National Weather Service Phoenix AZ
1053 PM MST Mon Apr 16 2018

AZZ530-CAZ560-561-568>570-170700-
/O.CAN.KPSR.WI.Y.0011.000000T0000Z-180417T0600Z/

Parker Valley-Joshua Tree NP West-Joshua Tree NP East-
Chiriaco Summit-Palo Verde Valley-Chuckwalla Valley-
Including the cities of Parker, Ehrenberg, Cottonwood Visitor,
Lost Horse-Keys Village, Chiriaco Summit, Martinez Lake, Blythe,
Palo Verde, Ripley, and Midland
1053 PM MST Mon Apr 16 2018 /1053 PM PDT Mon Apr 16 2018/

...WIND ADVISORY IS CANCELLED...

The National Weather Service in Phoenix has cancelled the Wind
Advisory.

Gusty winds have subsided over the past hour across Joshua Tree
National Park eastward towards the lower Colorado River Valley.
While locally gusty winds will continue, widespread windy
conditions are no longer anticipated, and the Wind Advisory will
be allowed to expire.

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CAZ563-566-567-170800-
/O.EXT.KPSR.DU.Y.0008.000000T0000Z-180417T0800Z/
/O.EXT.KPSR.WI.Y.0011.000000T0000Z-180417T0800Z/

Salton Sea-Imperial County West-Imperial Valley-
Including the cities of Desert Shores, Coolidge Springs,
Salton City, Winona, Coyote Wells, Ocotillo, Plaster City,
El Centro, Calexico, Alamo, and Brawley
1053 PM PDT Mon Apr 16 2018

...BLOWING DUST ADVISORY NOW IN EFFECT UNTIL 1 AM PDT TUESDAY...
...WIND ADVISORY NOW IN EFFECT UNTIL 1 AM PDT TUESDAY...

* AFFECTED AREA...Wind advisory for all of Southeast California
and far western Arizona along the Colorado River. Blowing dust
advisory for areas around the Salton Sea and West-Imperial
Valley.

* TIMING...Windy conditions are expected to continue through the
late evening.

* WINDS...Westerly winds of 25 to 35 mph with gusts in excess of
40 mph.

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

- * VISIBILITY...Generally 1 to 5 miles, but occasionally lower than 1 mile in isolated dust channels.
- * Impacts...Difficulty driving due to crosswinds, especially on roads that run north/south. Winds may cause areas of blowing dust that can reduce visibility. Unsecured objects may become airborne.

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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CAZ562-564-565-170800-

/O.EXT.KPSR.WI.Y.0011.00000T0000Z-180417T0800Z/

Imperial County Southwest-Chuckwalla Mountains-

Imperial County Southeast-

Including the cities of Mountain Spring,

Imperial Hot Mineral Springs, and Winterhaven

1053 PM PDT Mon Apr 16 2018

...WIND ADVISORY NOW IN EFFECT UNTIL 1 AM PDT TUESDAY...

- * AFFECTED AREA...All of Southeast California and far western Arizona along the Colorado River.
- * TIMING...Winds will increase this afternoon. Windy conditions are expected through the late evening.
- * WINDS...Westerly winds of 25 to 35 mph with gusts in excess of 40 mph.
- * IMPACTS...Difficulty driving due to crosswinds, especially on roads that run north/south. Winds may cause areas of blowing dust that can reduce visibility. Unsecured objects may become airborne.

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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WWUS75 KPSR 170754
NPWPSR

URGENT - WEATHER MESSAGE
National Weather Service Phoenix AZ
1254 AM MST Tue Apr 17 2018

CAZ563-566-567-170900-
/O.EXP.KPSR.DU.Y.0008.000000T0000Z-180417T0800Z/
/O.EXP.KPSR.WI.Y.0011.000000T0000Z-180417T0800Z/

Salton Sea-Imperial County West-Imperial Valley-
Including the cities of Desert Shores, Coolidge Springs,
Salton City, Winona, Coyote Wells, Ocotillo, Plaster City,
El Centro, Calexico, Alamo, and Brawley
1254 AM PDT Tue Apr 17 2018

...BLOWING DUST ADVISORY WILL EXPIRE AT 1 AM PDT EARLY THIS
MORNING...
...WIND ADVISORY WILL EXPIRE AT 1 AM PDT EARLY THIS MORNING...

Wind gusts have weakened over the past hour over much of southeast
California. Locally gusty winds to 30 mph and patchy blowing dust
will remain possible this morning, but are no longer expected to
be widespread. Therefore, the Wind Advisory and Blowing Dust
Advisory will be allowed to expire.

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CAZ562-564-565-170900-
/O.EXP.KPSR.WI.Y.0011.000000T0000Z-180417T0800Z/

Imperial County Southwest-Chuckwalla Mountains-
Imperial County Southeast-
Including the cities of Mountain Spring,
Imperial Hot Mineral Springs, and Winterhaven
1254 AM PDT Tue Apr 17 2018

...WIND ADVISORY WILL EXPIRE AT 1 AM PDT EARLY THIS MORNING...

Wind gusts have weakened over the past hour over much of southeast
California. Locally gusty winds to 30 mph and patchy blowing dust
will remain possible this morning, but are no longer expected to
be widespread. Therefore, the Wind Advisory will be allowed to
expire.

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343
FXUS65 KPSR 170951
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
251 AM MST Tue Apr 17 2018

.SYNOPSIS...Below normal temperatures are expected area-wide today in the wake of an exiting storm system, before temperatures rebound back to near seasonal normals midweek. A strong storm system will affect the Southwest Thursday and Friday, bringing a return of breezy conditions and an elevated to critical fire weather threat. A significant warming trend is expected into this weekend as temperatures warm back into the upper 90s over the lower deserts.

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.DISCUSSION...

Morning satellite imagery shows the primary shortwave trough over the Great Basin, and beginning to accelerate eastward. The western edge of mid-level cloudiness is finally exiting south-central Arizona, with drier air aloft becoming evident across the region. The low-level cold front is making its way across the lower deserts of south-central Arizona as of 09Z. Wind speeds remain breezy across southeast California and continue to produce pockets of blowing dust, but have otherwise weakened elsewhere. The forecast for temperatures 5-10 degrees below normal appears on track for today as cold advection continues to occur.

Low-amplitude shortwave ridging will temporarily build and bring temperatures closer to seasonal normals on Wednesday, but will be transient ahead of a deepening area of low pressure near the northern California coast. This feature continues to become more prominently featured across the Southwest in the most recent model guidance, and confidence is high in another round of strong winds, blowing dust, and potentially critical fire weather conditions occurring on Thursday. For that reason -- have issued a Fire Weather Watch for much of south-central and southwest Arizona for Thursday morning through Thursday evening. A Wind Advisory and/or Blowing Dust Advisory may eventually be needed as well. Southwesterly flow in the lowest 4 km AGL or so will strengthen significantly on Thursday, and will be better phased with the diurnal cycle than the most recent storm system. This means the potential for strong winds will be relatively high, especially across southwest Arizona. Could see gusts exceeding 40 mph with areas of blowing dust developing on Thursday afternoon.

Since the upcoming storm system will feature a closed-low, it will be slower to progress eastward across the region. Moisture will remain limited, but cannot rule out a few showers developing north

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

and east of the Phoenix area on Friday and early Saturday. Another temporary cool down to around 5-8 degrees below normal is also forecast on Friday. Into the weekend, a substantial weakening of westerlies across the western U.S. will occur, allowing broad ridging to gradually build across the Southwest. The inevitable return to the 90s looks probable, perhaps pushing the upper 90s by early next week.

&&

.AVIATION...

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

A weather system passing to the north is expected to keep winds going from a westerly direction through the rest of tonight and through Tuesday. Drier air moving in from the west is expected to clear out the mid/high clouds that are now being seen over the region this evening.

Southeast California/Southwest Arizona including KIPL and KBLH: Strong and gusty westerly winds and areas of blowing dust will continue to be a serious aviation weather concern through the rest of this evening with sustained WSW speeds over 20 kts and gusts as strong as 45 kts. Winds are then expected to greatly diminish later tonight and early Tuesday as the sfc cold front now affecting the region moves off to the east, but with suspended dust likely degrading slantwise visibility into Tuesday morning.

Aviation Discussion not updated for amended TAFs.

&&

.FIRE WEATHER...

Thursday through Monday:

A Fire Weather Watch has been issued for late Thursday morning through Thursday evening for much of southwest and south-central Arizona for strong winds, low RH, and very dry fuels.

A seasonably strong storm system will affect the Southwest, and bring another period of strong winds and low RH on Thursday. Winds look to be stronger with this system compared to the most recent system, and perhaps over a more prolonged period given its slow-moving nature. With fuel conditions very dry, a critical fire weather threat looks likely on Thursday. Wind speeds are not currently forecast to be as strong across southeast California and the lower Colorado River Valley, and these areas are not included in the Fire Weather Watch.

Cooler conditions will return on Friday, before a significant warmup occurs this weekend into early next week. While conditions will remain dry, wind speeds should generally weaken during this period and return to more typical diurnal wind patterns.

&&

April 16, 2018 Exceptional Event, Imperial County**Appendix A**

.SPOTTER INFORMATION STATEMENT...

Spotters are encouraged to report dense blowing dust.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...Fire Weather Watch from Thursday morning through Thursday evening for AZZ132-133.

CA...None.

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DISCUSSION...Rogers

AVIATION...Percha

FIRE WEATHER...Rogers

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129
WWUS76 KSGX 170951
NPWSGX

URGENT - WEATHER MESSAGE
National Weather Service San Diego CA
251 AM PDT Tue Apr 17 2018

CAZ055-056-058-060>062-065-171100-
/O.CAN.KSGX.HW.W.0005.00000T0000Z-180417T1200Z/
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-
251 AM PDT Tue Apr 17 2018

...HIGH WIND WARNING IS CANCELLED...

The National Weather Service in San Diego has cancelled the High
Wind Warning.

Winds have dropped below High Wind Warning criteria and will
continue to lower through the morning. The High Wind Warning has
been cancelled.

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851
 NZUS96 KSGX 171159
 LLLSGX
 CAZ043-048-050-055>058-060>062-065-552-554-172359-

Public Information Statement
 National Weather Service San Diego CA
 459 AM PDT Tue Apr 17 2018

...Wind Reports...

Location	Speed	Time/Date	Elevation (ft.)
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...Santa Ana Mountains and Foothills...

Fremont Canyon	35 MPH	0551 PM 04/16	1780
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...San Gorgonio Pass Near Banning...

Whitewater Raws (2 N)	67 MPH	0450 PM 04/16	2546
Thousand Palms (5 NNE)	55 MPH	0833 PM 04/16	1066
Whitewater	48 MPH	0645 PM 04/16	1510
Cabazon	38 MPH	0414 PM 04/16	2154

...San Diego County Mountains...

Volcan Mountain	71 MPH	0920 PM 04/16	5154
Harrison Park	69 MPH	1110 PM 04/16	4861
Ranchita (1 NE)	61 MPH	0907 PM 04/16	4415
Boulevard (1 W)	60 MPH	1010 PM 04/16	3404
Boulevard (5 NW)	49 MPH	1020 PM 04/16	4114
4 E Pine Valley	49 MPH	1231 AM 04/17	6048
Descanso (8 NE)	49 MPH	1040 PM 04/16	4740
Boucher Hill	43 MPH	0917 PM 04/16	5440
Julian Fire Station	43 MPH	1055 PM 04/16	4238
Lake Cuyamaca	42 MPH	1240 AM 04/17	4779
Palomar Mtn Lookout	41 MPH	1034 PM 04/16	6142
Warner Springs (4 SE)	40 MPH	0100 AM 04/17	3242
5 S Julian	38 MPH	0932 PM 04/16	4637
Julian (1 ESE)	38 MPH	1030 PM 04/16	4201
Boulevard (8 NW)	37 MPH	1050 PM 04/16	4000
Warner Springs (4 SW)	36 MPH	0330 PM 04/16	2803
Julian (4 W)	35 MPH	0700 PM 04/16	3738
Julian (2 N)	35 MPH	1020 PM 04/16	4131

...San Diego County Inland Valleys...

Roblar Canyon (Camp Pendleto	36 MPH	0422 PM 04/16	915
Otay Mountain	35 MPH	1100 PM 04/16	3359

...San Diego County Deserts...

Borrego Springs (7 SE)	55 MPH	0904 PM 04/16	587
Borrego Springs (9 S)	47 MPH	0700 PM 04/16	768
Julian (9 ESE)	46 MPH	0810 PM 04/16	2011
In Ko Pah	44 MPH	0700 PM 04/16	3221
Borrego Springs (2 E)	43 MPH	0130 PM 04/16	720
Borrego Springs (3 W)	39 MPH	0330 PM 04/16	820
Ocotillo Wells (1 SW)	38 MPH	0702 PM 04/16	137

...San Bernardino and Riverside County Valleys-The Inland Empire...

Temescal	39 MPH	1141 PM 04/16	1708
Highland Springs	35 MPH	0516 PM 04/16	2233

...San Bernardino County Mountains...

Running Springs (2 NW)	55 MPH	0215 PM 04/16	6350
Big Bear Airport	48 MPH	0135 PM 04/16	6752
Big Bear (2 E)	46 MPH	1145 AM 04/16	6790
Mormon Rock	44 MPH	0216 PM 04/16	3300
Burns Canyon	42 MPH	0751 PM 04/16	6284
Wrightwood (1 W)	41 MPH	0133 PM 04/16	6371
Rock Camp	41 MPH	0102 PM 04/16	4900
Big Bear Lake	40 MPH	0509 PM 04/16	7001
Big Bear Lake	38 MPH	0154 PM 04/16	6766
Fawnskin	37 MPH	0205 PM 04/16	7000
Lake Arrowhead	35 MPH	0445 PM 04/16	5495

...Riverside County Mountains...

Pinyon Pines	45 MPH	0836 PM 04/16	4060
9 SE Mountain Center	42 MPH	1038 PM 04/16	4590
Mt San Jacinto	37 MPH	0853 PM 04/16	8584
Mt San Jacinto Ranger Statio	36 MPH	0918 PM 04/16	8375
Anza (5 NNE)	36 MPH	1037 PM 04/16	4599
Pine Cove (8 NW)	36 MPH	0501 PM 04/16	4906

...Orange County Inland...

1 W Placentia	37 MPH	0518 PM 04/16	247
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...Coachella Valley...

Palm Desert (5 S)	61 MPH	1130 PM 04/16	980
Coachella	58 MPH	0710 PM 04/16	110
Thermal Airport	56 MPH	0643 PM 04/16	-118
Thousand Palms (5 NE)	45 MPH	0843 PM 04/16	1089
Thousand Palms	41 MPH	1200 AM 04/17	272
Indio Fire Station	40 MPH	0417 PM 04/16	26
Cathedral City (1 SW)	39 MPH	0352 PM 04/16	605
Palm Springs Airport	35 MPH	0338 AM 04/17	474

...Apple and Lucerne Valleys...

Lucerne Valley (1 SW)	55 MPH	0821 PM 04/16	3034
Apple Valley Airport (KAPV)	52 MPH	0155 PM 04/16	3062

Apple Valley (6 N)	49 MPH	0150 PM 04/16	3159
3 E Victorville	47 MPH	0220 PM 04/16	2746
Hesperia (2 E)	46 MPH	0624 PM 04/16	3051
Victorville (5 N)	46 MPH	0325 PM 04/16	4650
Hesperia (4 SW)	44 MPH	0344 PM 04/16	3580
Victorville Airport	43 MPH	0155 PM 04/16	2884
Victorville (6 SW)	41 MPH	0355 PM 04/16	3164
Means Lake	41 MPH	0926 PM 04/16	2818
Yucca Valley (5 W)	36 MPH	1234 PM 04/16	4302
El Mirage	35 MPH	0126 PM 04/16	2880

Observations are collected from a variety of sources with varying equipment and exposures. We thank all volunteer weather observers for their dedication. Not all data listed are considered official.

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741
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NATIONAL WEATHER SERVICE SAN DIEGO CA
840 AM PDT TUE APR 17 2018

..TIME...   ...EVENT...   ...CITY LOCATION...   ...LAT.LON...
..DATE...   ...MAG....   ..COUNTY LOCATION..ST..   ...SOURCE....
..REMARKS..

0907 PM     NON-TSTM WND GST RANCHITA (1 NE)   33.22N 116.50W
04/16/2018  M61 MPH           SAN DIEGO             CA  MESONET

MESONET STATION RCHC1, RANCHITA (1 NE).

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382
NWUS56 KSGX 171540
LSRSGX

PRELIMINARY LOCAL STORM REPORT
NATIONAL WEATHER SERVICE SAN DIEGO CA
840 AM PDT TUE APR 17 2018

..TIME...   ...EVENT...   ...CITY LOCATION...   ...LAT.LON...
..DATE...   ...MAG....   ..COUNTY LOCATION..ST.. ...SOURCE....
..REMARKS..

1130 PM     NON-TSTM WND GST PALM DESERT (5 S)   33.65N 116.38W
04/16/2018 M61 MPH           RIVERSIDE           CA  MESONET

MESONET STATION UCDE, PALM DESERT (5 S).

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LSRSGX

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NATIONAL WEATHER SERVICE SAN DIEGO CA
841 AM PDT TUE APR 17 2018

..TIME...   ...EVENT...   ...CITY LOCATION...   ...LAT.LON...
..DATE...   ...MAG....   ..COUNTY LOCATION..ST..   ...SOURCE....
   ..REMARKS..

0710 PM     NON-TSTM WND GST COACHELLA           33.67N 116.15W
04/16/2018  M58 MPH           RIVERSIDE           CA  MESONET

           MESONET STATION E0772, COACHELLA.

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270
NWUS56 KSGX 171546
LSRSGX

PRELIMINARY LOCAL STORM REPORT
NATIONAL WEATHER SERVICE SAN DIEGO CA
846 AM PDT TUE APR 17 2018

..TIME...   ...EVENT...   ...CITY LOCATION...   ...LAT.LON...
..DATE...   ...MAG....   ..COUNTY LOCATION..ST..   ...SOURCE....
   ..REMARKS..

0904 PM     NON-TSTM WND GST BORREGO SPRINGS (7 SE)  33.19N 116.28W
04/16/2018  M55 MPH           SAN DIEGO             CA   MESONET

MESONET STATION D1021, BORREGO SPRINGS (7
SE).

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April 16, 2018 Exceptional Event, Imperial County

Appendix A

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PRELIMINARY LOCAL STORM REPORT
NATIONAL WEATHER SERVICE SAN DIEGO CA
846 AM PDT TUE APR 17 2018

..TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...
..DATE...MAG....	..COUNTY LOCATION..ST..	...SOURCE....
..REMARKS..			

0821 PM	NON-TSTM WND GST	LUCERNE VALLEY (1 SW)	34.44N 116.98W
04/16/2018	M55 MPH	SAN BERNARDINO CA	MESONET

MESONET STATION F0119, LUCERNE VALLEY (1 SW).

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861
NWUS56 KSGX 171546
LSRSGX

PRELIMINARY LOCAL STORM REPORT
NATIONAL WEATHER SERVICE SAN DIEGO CA
846 AM PDT TUE APR 17 2018

..TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...
..DATE...MAG....	..COUNTY LOCATION..ST..	...SOURCE....
..REMARKS..			

1010 PM	NON-TSTM WND GST	BOULEVARD (1 W)	32.66N 116.29W
04/16/2018	M60 MPH	SAN DIEGO CA	MESONET

MESONET STATION BVDSO, BOULEVARD (1 W).

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474
NWUS56 KSGX 171546
LSRSGX

PRELIMINARY LOCAL STORM REPORT
NATIONAL WEATHER SERVICE SAN DIEGO CA
846 AM PDT TUE APR 17 2018

..TIME... ..EVENT... ..CITY LOCATION... ..LAT.LON...
..DATE... ..MAG.... ..COUNTY LOCATION..ST.. ..SOURCE....
..REMARKS..

0450 PM NON-TSTM WND GST WHITEWATER RAWS (2 N) 33.95N 116.66W
04/16/2018 M67 MPH RIVERSIDE CA MESONET

MESONET STATION WWAC1, WHITEWATER RAWS (2
N). PEAK WIND GUSTS EARLY WAS 64 MPH.

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068
NWUS56 KSGX 171546
LSRSGX

PRELIMINARY LOCAL STORM REPORT
NATIONAL WEATHER SERVICE SAN DIEGO CA
846 AM PDT TUE APR 17 2018

..TIME... ..EVENT... ..CITY LOCATION... ..LAT.LON...
..DATE... ..MAG.... ..COUNTY LOCATION..ST.. ..SOURCE....
..REMARKS..

1110 PM NON-TSTM WND GST HARRISON PARK 33.04N 116.56W
04/16/2018 M69 MPH SAN DIEGO CA MESONET

MESONET STATION HRPSD, HARRISON PARK.

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NATIONAL WEATHER SERVICE SAN DIEGO CA
847 AM PDT TUE APR 17 2018

..TIME...   ...EVENT...   ...CITY LOCATION...   ...LAT.LON...
..DATE...   ...MAG....   ..COUNTY LOCATION..ST..   ...SOURCE....
..REMARKS..

0833 PM     NON-TSTM WND GST THOUSAND PALMS (5 NNE)  33.89N 116.37W
04/16/2018  M55 MPH           RIVERSIDE             CA  MESONET

MESONET STATION E3393, THOUSAND PALMS (5
NNE).

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NWUS56 KSGX 171547
LSRSGX

PRELIMINARY LOCAL STORM REPORT
NATIONAL WEATHER SERVICE SAN DIEGO CA
847 AM PDT TUE APR 17 2018

..TIME... ..EVENT... ..CITY LOCATION... ..LAT.LON...
..DATE... ..MAG.... ..COUNTY LOCATION..ST.. ..SOURCE....
..REMARKS..

0215 PM NON-TSTM WND GST RUNNING SPRINGS (2 NW) 34.24N 117.14W
04/16/2018 M55 MPH SAN BERNARDINO CA MESONET

MESONET STATION HHPC1, RUNNING SPRINGS (2
NW).

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