

TYPE	DATE	TIME	AGENCY	DESCRIPTION	PAGE
Area Forecast Discussion	5/22/2017	1525	MST	Phoenix	46
Area Forecast Discussion	5/22/2017	2119	PDT	San Diego	48
Area Forecast Discussion	5/23/2017	0247	MST	Phoenix	50
Area Forecast Discussion	5/23/2017	0248	PDT	San Diego	53

TYPE	DATE	TIME	AGENCY	DESCRIPTION	PAGE	
Area Forecast Discussion	5/23/2017	1305	PDT	San Diego	<p>A weak shortwave ejecting from the parent trough over the Pacific will track northeast across Santa Barbara/Venture/LA counties tomorrow afternoon. ... 850 mb wind increase to 30-40 kt tomorrow evening, and it will turn windier in the mountains and deserts then. Thursday and Friday: The parent trough over the Pacific slowly moves inland across SoCal and it will turn noticeably cooler in the valleys, mountains and deserts. High temperatures will be several degrees below average both days. Windy in the mountains and deserts with gusts of 30-40 mph in the afternoons and evenings with gusts of 50-55 mph in the wind prone areas. The marine layer will deepen to around 5000 feet Friday morning, and this deep moist layer combined with a weak shortwave aloft will likely produce areas of light rain/drizzle west of the mountains Thursday night/Friday morning.</p>	55
Urgent Weather Message	5/24/2017	0232	PDT	San Diego	<p>...Strong winds in parts of the desert...A low pressure trough and increasing onshore flow will boost winds in the desert this afternoon into Friday morning. Strongest winds will be in the San Gorgonio Pass into the northern Coachella Valley and in the Anza Borrego Desert during the late afternoons through the nights...San Diego County Deserts-San Gorgonio Pass Near Banning-Including the city of Desert Hot Springs...WIND ADVISORY IN EFFECT FROM 5 PM THIS AFTERNOON TO 8 AM PDT FRIDAY...The National Weather Service in San Diego has issued a Wind Advisory, which is in effect from 5 PM this afternoon to 8 AM PDT Friday.</p> <p>* WINDS...Westerly 25 to 35 mph with gusts to 50 mph.</p> <p>* TIMING...Late this afternoon through tonight...and again Thursday afternoon into early Friday morning.</p> <p>* LOCATION...Through and east of the San Gorgonio Pass into the northern Coachella Valley...and parts of the Anza Borrego Desert.</p> <p>* VISIBILITY...Locally reduced to 2 to 5 miles in blowing dust and sand.</p> <p>* IMPACTS...Blowing dust and locally hazardous driving conditions.</p>	57
Area Forecast Discussion	5/24/2017	0233	PDT	San Diego	<p>...Some high clouds will continue to move across our sky coming from a weak low over the Pacific to our west. A fair and cooler day is expected as a low pressure trough bears down from the north and merges with that Pacific low today and tonight. ... It will also boost winds in the mountains and deserts. Small portions of this region will have strong winds. An advisory is in effect for gusty pockets in the northern Coachella Valley and the Anza Borrego Desert late this afternoon into Friday morning. The trough will deepen further Thursday and a shortwave will move through Southern California Thursday night into Friday morning. ...</p>	58
Area Forecast Discussion	5/24/2017	0247	MST	Phoenix	<p>By this evening an area of strong low pressure will move through the northern CONUS tier flattening high pressure heights across the Southwest. Enhancement of the sub-tropical jet will develop and nose into southern CA and the Southwest overnight and last into Thursday. 85-90kt 250mb jet winds will lead to increasing surface winds, first for area ridgetops, mountain passes and higher terrain locales this evening. Advisory conditions will develop later this evening for the Fish Creek/Coyote Mountains and In-Ko-Pah area west of El Centro with pass level west-southwesterly gusts 45 mph or greater possible. Ridgetop winds will eventually mix and expand down into the lower elevations during the day Thursday with gusts for the western deserts ranging 35 to 50 mph. Gusts across southwest and south-central Arizona could range 20 to 30 mph. Visibility and air quality impacts are anticipated in the dust/sand prone areas, especially across southeast California. With all the wind and height falls transitioning into the area, high temperatures cool into the upper 90s to near 100 for Thursday and fall further for the end of the work week.</p>	60

TYPE	DATE	TIME	AGENCY	DESCRIPTION	PAGE
Area Forecast Discussion	5/24/2017	0855	PDT	San Diego	63
Urgent Weather Message	5/24/2017	1043	PDT	San Diego	66
Area Forecast Discussion	5/24/2017	1328	PDT	San Diego	67

TYPE	DATE	TIME	AGENCY	DESCRIPTION	PAGE
Urgent Weather Message	5/24/2017	1442	MST	Phoenix	70
<p>Imperial County Southwest-Including the city of Mountain Springs ...WIND ADVISORY IN EFFECT FROM 5 PM THIS AFTERNOON TO 5 AM PDT FRIDAY...The National Weather Service in Phoenix has issued a Wind Advisory, which is in effect from 5 PM this afternoon to 5 AM PDT Friday. * AFFECTED AREA...Far southwest Imperial County. * TIMING...This afternoon through Friday morning. * WINDS...West winds 25 to 35 mph with gusts to 50 mph. * IMPACTS...Elevated winds and strong gusts may create dangerous driving conditions for high profile vehicles along Interstate 8 west of El Centro. Locally reduced visibilities due to blowing dust are also possible.</p> <p>Imperial County West-Including the cities of Coolidge Springs, Salton City, Winona, Coyote Wells, Ocotillo, and Plaster City...WIND ADVISORY IN EFFECT FROM 2 PM THURSDAY TO 5 AM PDT FRIDAY...The National Weather Service in Phoenix has issued a Wind Advisory, which is in effect from 2 PM Thursday to 5 AM PDT Friday. * AFFECTED AREA...Far western Imperial County. * TIMING...Thursday afternoon through Friday morning. * WINDS...West winds 25 to 35 mph with gusts to 50 mph. * IMPACTS...Elevated winds and strong gusts may create dangerous driving conditions for high profile vehicles. Locally reduced visibilities due to blowing dust are also possible.</p>					
Area Forecast Discussion	5/24/2017	1445	MST	Phoenix	72
<p>The high pressure system over the region which resulted in anomalously hot afternoons will break down this evening, as a series of weather systems move into the western states. Although dry weather is forecast through Friday, cooler and windy afternoons are expected. Gusty winds are slated for this evening, blowing strongest in Imperial County where advisories continue tonight. Nearly the same magnitude winds are expected Thursday afternoon and evening, but less strong Friday. The coolest days will be Thursday, Friday and Saturday when temperatures drop below 100 on the deserts, and below normal.</p>					
Urgent Weather Message	5/24/2017	1740	PDT	San Diego	75
<p>...Strong winds in parts of the desert...A low pressure trough and increasing onshore flow will boost winds in the desert through Friday morning. Strongest winds will be in the San Geronio Pass into the northern Coachella Valley and in the Anza Borrego Desert tonight and again Thursday afternoon into early Friday morning...San Diego County Deserts-San Geronio Pass Near Banning-Including the city of Desert Hot Springs...WIND ADVISORY REMAINS IN EFFECT UNTIL 8 AM PDT FRIDAY... * WINDS...Westerly 25 to 35 mph with gusts to 55 mph and locally to 65 mph. * TIMING...Tonight, and again Thursday afternoon into early Friday morning. * LOCATION...Through and east of the San Geronio Pass into the northern Coachella Valley...and parts of the Anza Borrego Desert. * VISIBILITY...Locally reduced to 2 to 5 miles in blowing dust and sand. * IMPACTS...Hazardous driving conditions for high profile vehicles. Blowing dust reducing visibilities for motorists.</p>					

TYPE	DATE	TIME	AGENCY	DESCRIPTION	PAGE
Area Forecast Discussion	5/24/2017	2137	MST	Phoenix	76
Area Forecast Discussion	5/25/2017	0216	MST	Phoenix	79
Urgent Weather Message	5/25/2017	0218	MST	Phoenix	82

TYPE	DATE	TIME	AGENCY	DESCRIPTION	PAGE
Area Forecast Discussion	5/25/2017	0237	PDT	San Diego	84
				<p>... Winds in parts of the mountains and deserts will continue pretty strong through tonight, particularly east of San Gorgonio Pass and in the Anza Borrego Desert. A low pressure trough will send a weak shortwave right through Southern California tonight into Friday morning. That will deepen the marine layer to at least 5000 feet and provide enough lift to wring out some light showers from the coast to the mountain slopes. It could make for a damp commute Friday morning in some areas.</p> <p>...AVIATION...Mountains/Deserts...Southwest to west winds with sfc gusts 35-45 kt along the desert slopes/foothills and through the passes continuing through Fri morning with MOD-STG UDDFS and pockets of LLWS over and NE/E of the mountains.</p>	
Urgent Weather Message	5/25/2017	0246	PDT	San Diego	86
				<p>...Strong winds in parts of the desert through tonight...A low pressure trough and strong onshore flow will boost winds in the desert through tonight. Strongest winds will be in the San Gorgonio Pass into the northern Coachella Valley and in the Anza Borrego Desert Winds will diminish Friday morning....San Diego County Deserts-San Gorgonio Pass Near Banning-Including the city of Desert Hot Springs...WIND ADVISORY REMAINS IN EFFECT UNTIL 8 AM PDT FRIDAY...</p> <p>* WINDS...Westerly 25 to 35 mph with gusts to 55 mph.</p> <p>* TIMING...Through early Friday morning.</p> <p>* LOCATION...Through and east of the San Gorgonio Pass into the northern Coachella Valley...and parts of the Anza Borrego Desert.</p> <p>* VISIBILITY...Locally reduced to 2 to 5 miles in blowing dust and sand.</p> <p>* IMPACTS...Hazardous driving conditions for high profile vehicles. Blowing dust reducing visibilities for motorists.</p>	
Area Forecast Discussion	5/25/2017	0722	PDT	San Diego	87
				<p>Morning visible satellite shows widespread marine layer stratus over the coastal waters, coast, and valleys, with mountain wave clouds over the southeast San Diego deserts and Imperial County. Elsewhere, skies were clear. Water vapor satellite shows a short-wave trough offshore of Point Conception and a deeper, stronger trough over the Inter-Mountain west. ... Onshore flow continues to strengthen as well, with onshore pressure gradients from San Diego to Las Vegas up to 14.6 mb, compared to 7.1 mb at this time yesterday. Winds in the mountain ridges, desert slopes and passes are gusting around 30-40 mph, with the highest gusts of 57 mph in the San Gorgonio Pass area. Although hi-res models show winds weakening slightly today, they should increase again tonight as the short-wave moves through Southern California tonight into Friday morning. A Wind Advisory continues for the San Gorgonio Pass area and the San Diego county deserts through 8 AM Friday, with gusts of 55 mph and locally 65 mph likely. The short-wave moving through the region will likely bring scattered light showers over and west of the mountains tonight into early Friday morning, with scattered amounts of 0.01-0.05 inches. Many places may only see a trace.AVIATION...Mountains/Deserts...Southwest to west winds with surface gusts 35-45 kt along the desert slopes/foothills and through the passes continuing through Fri morning with moderate to strong up and downdrafts along with pockets of wind shear over and NE/E of the mountains.</p>	

TYPE	DATE	TIME	AGENCY	DESCRIPTION	PAGE
Area Forecast Discussion	5/25/2017	0910	MST	Phoenix	89
<p>Dry southwest flow aloft was in place across far SE California and Arizona this morning, clearly evident in the morning plot and raob data. The southwest flow was ahead of a deepening trof setting up across the pacific northwest; Gradients have been tightening ahead of the developing trof and we will see breezy to windy conditions develop during the afternoon today, especially over the western deserts of far SE California. Currently a wind advisory remains in effect for the far southwest portion of Imperial county which is in a very wind prone area and typically blows hard in association with approaching trofs.</p> <p>One feature of interest this morning was continued lee cirrus blowoff emanating from the mountains of far northern Baja CA, just south of Imperial county..... but continued lee blowoff cirrus may persist into the afternoon as the upper jet will stay in its current position for a good part of the day.</p>					
Urgent Weather Message	5/25/2017	1254	MST	Phoenix	92
<p>Imperial County Southwest-Including the city of Mountain Spring ...WIND ADVISORY REMAINS IN EFFECT UNTIL 5 AM PDT FRIDAY... * AFFECTED AREA...Far southwest Imperial County. * TIMING...Now through early Friday morning. * WINDS...West winds 25 to 35 mph with gusts to 50 mph. * IMPACTS...Elevated winds and strong gusts may create dangerous driving conditions for high profile vehicles along Interstate 8 west of El Centro. Locally reduced visibilities due to blowing dust are also possible.</p> <p>Imperial County West-Including the cities of Coolidge Springs, Salton City, Winona, Coyote Wells, Ocotillo, and Plaster City ...WIND ADVISORY REMAINS IN EFFECT UNTIL 5 AM PDT FRIDAY... * AFFECTED AREA...Far western Imperial County. * TIMING...This afternoon through Friday morning.</p>					
Urgent Weather Message	5/25/2017	1326	PDT	San Diego	94
<p>...Strong winds in parts of the desert through late tonight...A low pressure trough and strong onshore flow will continue to produce strong winds in portions of the lower deserts through tonight. Strongest winds will be in the San Gorgonio Pass into the northern Coachella Valley and in the Anza Borrego Desert. Winds will diminish Friday morning...San Diego County Deserts-San Gorgonio Pass Near Banning-Including the city of Desert Hot Springs...WIND ADVISORY REMAINS IN EFFECT UNTIL 8 AM PDT FRIDAY... * WINDS...Westerly 25 to 35 mph with gusts to 55 mph and local gusts to 65 mph. * TIMING...Through early Friday morning. * LOCATION...Through and east of the San Gorgonio Pass into the northern Coachella Valley...and parts of the Anza Borrego Desert. * VISIBILITY...Locally reduced to 2 to 5 miles in blowing dust and sand. * IMPACTS...Hazardous driving conditions for high profile vehicles. Blowing dust reducing visibilities for motorists.</p>					

TYPE	DATE	TIME	AGENCY	DESCRIPTION	PAGE
Area Forecast Discussion	5/25/2017	1328	PDT	San Diego	95
Area Forecast Discussion	5/25/2017	2005	MST	Phoenix	97
Area Forecast Discussion	5/25/2017	2136	PDT	San Diego	100
Urgent Weather Message	5/25/2017	2154	PDT	San Diego	103
Urgent Weather Message	5/26/2017	0456	PDT	Phoenix	104
Southwestern California Temperature and Precipitation Summary	5/26/2017	0530	PDT	San Diego	105

TYPE	DATE	TIME	AGENCY	DESCRIPTION	PAGE
Urgent Weather Message	5/26/2017	0756	PDT	San Diego ... WINDS DECREASING THIS MORNING ...San Diego County Deserts-San Gorgonio Pass Near Banning-INCLUDING THE CITY OF Desert Hot Springs ... WIND ADVISORY WILL EXPIRE AT 8 AM PDT THIS MORNING ... WINDS HAVE DECREASED THIS MORNING AND THE WIND ADVISORY WILL EXPIRE. BREEZY BUT NOT HAZARDOUS CONDITIONS WILL CONTINUE TODAY.	108

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575
FXUS65 KPSR 222225
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
325 PM MST Mon May 22 2017

.SYNOPSIS...

High pressure building in from the west will continue a gradual warming trend across the region through the middle of the week, with high temperatures rising well above 100 degrees at many lower desert locations. Somewhat cooler temperatures are likely to return by the latter portion of next week as low pressure once again moves into the western US.

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.DISCUSSION...

A trailing and elongated shortwave off the large upper low near the Great Lakes is moving through northern Arizona and bringing our eastern CWA some scattered cumulus clouds. The pacific upper ridge still remains situated off the west coast and will continue to push eastward, with heights peaking over our region tomorrow and Wednesday. Highs tomorrow will range from 105 to 110 from western Arizona westward and from 100 to 106 across south-central Arizona. On Wednesday, temperatures will be near or just a degree or two warmer than Tuesday. While these temperatures are above seasonal normals, atmospheric parameters of heights and temps are not outside of seasonal NAEFS/ESRL percentile ranges. HeatRisk levels with these temperatures do rise into the moderate to borderline high categories and given the recent stretch of cooler weather over the previous week, this warming could catch folks off-guard.

Temperatures Thursday through next weekend will return to more seasonal readings as long-wave troughing returns over the western CONUS. Lowering heights and slight cool advection will create gradient driven wind increases, especially across the Peninsular Ranges between San Diego-El Centro Wednesday and then regionally on Thursday. Gusty surface winds, west to southwesterly in nature, will sweep into the area and could generate some patchy blowing dust at times Wednesday for the Imperial area and then across southeast CA for Thursday. High temperatures tumble to readings 100 degrees or cooler Thursday and could stay below triple digit readings through the weekend as longwave troughing holds over the region, keeping elevated thicknesses and warmth removed from the area.

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.AVIATION...

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

May 25, 2017 Exceptional Event, Imperial County
California/Southwest Arizona including KIPL and KBLH:

No aviation concerns through the TAF period. Winds will remain light and follow normal diurnal headings. Skies will remain mostly clear with FEW to SCT cumulus aca 10 kft passing over Phoenix terminals.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

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.FIRE WEATHER...

Thursday through Monday:

Westerly wind speeds will be strongest on Thursday, when gusts up to 35 mph (locally stronger) are forecast to occur. This will likely create elevated fire weather conditions, especially across southeast California and the lower Colorado River Valley where the combination of relative humidities below 15 percent and gusty winds will coincide. Winds will weaken into Friday, but still remain slightly breezy. Over the weekend, wind speeds will be light area-wide as high pressure builds over the Great Basin.

A minor cooldown will occur through Saturday, with highs in the low to mid 90s forecast each day across the lower deserts. A warming trend will then commence on Sunday, with high temperatures in the lower 100s making a return by Monday.

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.SPOTTER INFORMATION STATEMENT...

Spotter reports should not be needed.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...None.

CA...None.

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DISCUSSION...Hernandez/Nolte

AVIATION...Hernandez

FIRE WEATHER...Rogers/Hernandez

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853
FXUS66 KSGX 230419
AFDSGX

Area Forecast Discussion
National Weather Service San Diego CA
919 PM PDT Mon May 22 2017

.SYNOPSIS...

Another hot day is anticipated Tuesday as a ridge of high pressure along the West Coast strengthens slightly. The Coachella Valley should see it's warmest day of the year with afternoon highs in the 109-112 degree range. A sharp cooling trend will arrive during the second half of the workweek as a trough of low pressure traverses the region. Inland areas can expect afternoon highs 10-20 degrees below seasonal averages by Friday. Quiet weather and a weak cooling trend are forecast for the upcoming weekend.

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

At 900 PM, weak ridging was in place over SoCal, with a shortwave trough moving through the Intermountain West. The trough was bringing a quick burst of high clouds region. West of the mountains the 00Z NKX sounding indicated a marine layer with a depth at or just below 1,000 ft msl. The marine layer stratus deck was returning rapidly along the coast.

Tonight and Tuesday morning, the main concern will be areas of fog within 10 miles of the coast. Compared to last night, the marine layer is about 500 ft shallower. Given this, areas of dense fog are possible over the coastal mesas, and along portions of Interstates 5, 8, 405, and 805 during the morning commute. At this time confidence in widespread dense fog is to low for the issuance of a Dense Fog Advisory, will allow the overnight shift to monitor/reevaluate with the morning forecast package. Any fog that develops is expected to lift by 9 AM.

For Tuesday afternoon, the focus shifts to another day of unseasonably hot conditions, as the ridge along the West Coast strengthens. Inland areas will receive the brunt of the heat, with afternoon highs forecast to be 8-16 degrees above seasonal averages. The coast will be shielded by a shallow marine layer. This will be the hottest day of the year thus far in the Coachella Valley, where afternoon highs will be in the the 109-112 range. An Excessive Heat Warning was considered, but not issued due to the short duration of this event.

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

A cooling trend will arrive for the second half of the workweek as a weak shortwave trough undercuts the ridge of high pressure along the West Coast. By Friday, inland temperatures will fall to 10-18 degrees below seasonal averages, a 10-25 degree drop from Tuesday's highs. Outside of the welcome decline in temperatures, there are two other features to keep an eye on during the second half of the week. The first feature is a weak impulse that will rotate around the base of the trough Wednesday afternoon. Model guidance suggests very modest CAPE of 100-500 j/kg, mainly for the San Gabriel Mtns and points north. This could bring a few afternoon cumulus buildups for these areas and potentially the San Bernardino Mtns if the track shifts slightly southeast. The second feature will be the main shortwave as it moves inland, producing a rapidly deepening of the marine layer Thursday night into Friday morning. At this time sub 850 moisture and marine layer depth look sufficient for a few light sprinkles/drizzle during this period. Gusty winds will also develop Thursday and Friday for the desert slopes and deserts, with Wind Advisory strength winds possible.

Next weekend, weak ridging is forecast to return over California during this period. For our area this will bring a warming trend and shallower/less persistent marine layer. By Sunday afternoon temperatures should be near seasonal averages under fair skies.

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.AVIATION...

230325Z...Coast/Valleys...Stratus with bases 600-800 ft MSL filling in along the coast through 06Z then spreading 10-15 SM inland overnight. Bases may lower to around 300-500 ft MSL by morning, producing widespread vis of 5SM or less along the coast and areas of vis 1/2 SM or less over higher coastal terrain and on coastal mesas, including at KCRQ. Stratus clearing to the immediate coast 17-19Z, with low clouds lingering along the beaches through the afternoon. Stratus may return to KSAN and KCRQ at times 21-02Z, though confidence is low. Stratus spreading back inland after 24/02Z with bases near 500-800 ft MSL.

Mountains/Deserts...SCT clouds AOA 20000 ft MSL and unrestricted vis through Tue evening.

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.MARINE...

A shallower marine layer may bring locally dense fog with visibility near 1 NM to the coastal waters tonight into Tuesday morning, and possibly again Tuesday evening.

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.SGX WATCHES/WARNINGS/ADVISORIES...

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977
FXUS65 KPSR 230947
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
247 AM MST Tue May 23 2017

.SYNOPSIS...

High pressure building in from the west will continue to warm temperatures across the region through the middle of the week, with high temperatures rising well above 100 degrees at many lower desert locations. Cooler temperatures will return by the latter portion of the week and early weekend as low pressure once again moves into the western US.

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.DISCUSSION...

Weak upper shortwave heights have all but washed out this evening in model evening streamline plots, with the only indicator of its presence in the ML water vapor imagery showing an area of increased moisture spanning much of southern Arizona and California this early morning. Expansive low pressure remains over the eastern two-thirds of the CONUS with amplified Pacific high pressure finally moving inland to the West Coast. This area of high pressure, while within seasonable parameters in terms of height and thermal profile, will string together 3 to 4 days of warm temperatures (starting on Sunday) for the lower desert forecast area locales. The greatest thicknesses and warmest thermal profile will fall near and west of the Colorado River Valley, where daytime highs will range 105 to 110 today. As such, Heat Risk rises to widespread moderate to areas of high risk across the Imperial Valley as well as the Yuma area and portions of the Lower Gila River heading towards Yuma. An Excessive Heat Warning has been issued for those locales for today. Highs across south-central Arizona will range from 100 to 105 today.

Upper troughing entering the Pacific Northwest has deepened slightly on last evening's model runs. 500mb height forecasts have fallen into the low 580s by Wednesday aftn on the southern fringe of the trough. Warming for Wednesday may be muted across the western CWA and only achieve an additional degree - in spite of better mixing and increasing winds with this new forecast solution. So instead of a peak of temperatures on Wednesday, it may be more a plateau between today and Wednesday before a cool down drops temperatures off for the end of the week.

Overnight Wednesday into Thursday, ridge heights will be flattened as strong Pacific low pressure moves into the Pac NW. Trough heights will continue to trail southward through the Intermountain West, introducing height falls as early as Wednesday but most noticeably late Wednesday into Thursday on the order of

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

3 to 5 dam. High pressure ridge will move to our east drawing a local enhancement of the sub-tropical jet across southern CA and into the Southwest late Wednesday into Thursday. Forecast 250mb jet winds sample 80-90kts with surface winds forecasts nudging into the 90th to 95th percentile GEFS reforecast ranges. Advisory conditions may develop as early as Wednesday, but look likely for Thursday over the Peninsular Ranges between San Diego and El Centro with gusts of 45 mph or greater possible. Ridgetop winds will eventually mix and expand down into the lower elevations during the day Thursday with gusts for the western deserts ranging 30 to 35 mph. Gusts across southwest and south-central Arizona could range 20 to 30 mph. Visibility and air quality impacts are anticipated in the dust/sand prone areas, especially across southeast California. Elevated winds and dry advection into the region could also add localized fire weather concerns to the mix for Thursday. With all the wind and height falls transitioning into the area, high temperatures cool into the upper 90s to near 100 for Thursday and fall further for the end of the work week.

Temperatures look likely to stay below triple digit readings through the weekend as longwave troughing holds over the region, keeping elevated thicknesses and warmth removed from the area. A gradual warming trend will begin Sunday and into early next week and Pacific ridging returns warmth to the area from the west.

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.AVIATION...

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

No aviation concerns through the TAF period. Winds will remain light and follow normal diurnal headings. SCT TO BKN mid and high clouds through around midnight will gradually push to the south leaving generally clear skies for Tuesday.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

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.FIRE WEATHER...

Thursday through Monday:

Westerly wind speeds will be strongest on Thursday, when gusts up to 35 mph (locally stronger) are forecast to occur. This will likely create elevated fire weather conditions, especially across southeast California and the lower Colorado River Valley where the combination of relative humidities below 15 percent and gusty winds will coincide. Winds will weaken into Friday, but still remain slightly breezy. Over the weekend, wind speeds will be light area-wide as high pressure builds over the Great Basin.

A minor cooldown will occur through Saturday, with highs in the low to mid 90s forecast each day across the lower deserts. A warming trend will then commence on Sunday, with high

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

temperatures in the lower 100s making a return by Monday.

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.SPOTTER INFORMATION STATEMENT...

Spotter reports should not be needed.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...Excessive Heat Warning from 10 AM this morning to 8 PM MST this evening for AZZ532-536.

CA...Excessive Heat Warning from 10 AM this morning to 8 PM PDT this evening for CAZ566-567.

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DISCUSSION...Nolte

AVIATION...Hernandez/Kuhlman

FIRE WEATHER...Rogers/Hernandez

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FXUS66 KSGX 230948
AFDSGX

Area Forecast Discussion
National Weather Service San Diego CA
248 AM PDT Tue May 23 2017

.SYNOPSIS...

High pressure aloft will bring the hottest temperatures of the week for desert areas today. Coastal areas will be cooler with areas of night and morning low clouds and fog spreading into the far western valleys this morning...and farther into the valleys for Wednesday morning with slow cooling spreading inland. A trough of low pressure over the western states will bring stronger onshore flow and greater cooling for Thursday and Friday with strong gusty southwest to west winds in the mountains and deserts. The marine layer will deepen with low clouds extending into the far inlands Thursday morning...and onto the coastal mountain slopes for late Thursday night into Friday morning with a slight chance of light showers along and west of the mountains. High pressure aloft near the West Coast will bring a warming trend for the holiday weekend with high temperatures for inland areas warming to near average on Sunday and a little above average on Memorial Day. The marine layer and weak onshore flow will keep coastal areas cooler with areas of night and morning low clouds and fog.

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

High pressure aloft near the West Coast will peak today with the warmest high temperatures of the week for inland areas. High temperatures around 110 are expected for the lower deserts. For coastal areas...the marine layer continues to slowly deepen and is around 200 feet deeper than 24 hours ago with satellite imagery showing low clouds extending inland to the far western valleys in San Diego County. Continued slow deepening is expected to take the low clouds a little farther into the western valleys for tonight into Wednesday morning. Slow cooling will spread into the western valleys today...and into the deserts on Wednesday.

For Thursday and Friday...low pressure over the western states will bring stronger onshore flow with cooling to around 10 degrees below average for inland areas...with Friday expected to be the coolest day. There will be periods of strong gusty southwest to west winds in the mountains and deserts. Greater deepening of the marine layer will take coastal low clouds into the inland valleys on Thursday morning...and onto the

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

coastal mountain slopes for late Thursday night into Friday morning with a slight chance of light showers along and west of the mountains. Any precipitation is expected to be light.

For the holiday weekend...high pressure aloft near the West Coast will bring a warming trend with high temperatures for inland area warming to near average on Sunday and a little above average on Memorial Day. The marine layer and weak onshore flow will keep coastal areas cooler with areas of night and morning low clouds and fog.

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.AVIATION...

230900Z...Low clouds with bases around 800 feet msl and tops to 1400 feet will continue through 16Z at coastal airports. Vis may be reduced to 3-5sm or lower on higher coastal terrain. Low clouds will move ashore this evening after 04Z. These clouds will be based at around 1000 feet msl and spread farther inland overnight. Otherwise, mostly clear skies except for a few high clouds and afternoon cumulus over the mountains.

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.MARINE...

No hazardous marine weather is expected through Saturday.

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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...None.

PZ...None.

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PUBLIC...17

AVIATION/MARINE...MM

**IOWA STATE
UNIVERSITY**

College of Ag

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402
FXUS66 KSGX 232009
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
105 PM PDT TUE MAY 23 2017

.SYNOPSIS...

High pressure aloft will drift east tonight and a weak trough moving in from the west will bring cooling Wednesday through Friday. Low clouds will spread farther inland each day as the marine layer deepens. There may be areas of light rain west of the mountains Thursday night into Friday morning. Windy in the mountains and deserts. High pressure will rebuild over the West this weekend for warmer weather and a shallower marine layer.

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

Cool marine air and low clouds surged rapidly inland across the coastal zones between 10 AM and Noon today. A steep thermal gradients was a primary factor in generating the strong onshore push and the gusty westerly winds. At Noon the temperature at Palm Springs was 108, and 66 at North Island and Oceanside. That's a 42 degree temperature gradient from the coast to the desert. The temperature at Rancho Bernardo topped out at 81 degrees at 10:43 AM, then fell to 70 degrees at 11:50 AM.

It was hot in the valleys and deserts today, but tomorrow won't be quite as hot as the 588 dm ridge over California moves east and takes the heat bubble with it. Sixty meter height falls over So-Cal will translate into 5 to 10 degrees of cooling tomorrow in the valleys and deserts. Lower heights will allow the marine layer to deepen, and low clouds/fog will spread into the inland valleys by Wednesday morning.

A weak shortwave ejecting from the parent trough over the Pacific will track northeast across Santa Barbara/Venture/LA counties tomorrow afternoon. This feature may have enough elevated CAPE and instability for isolated high-based convection over the San Gabriel mountains. The track of the upper low is a little too far east for a significant chance over the SBD mountains, but there may be afternoon CU in that area tomorrow. 850 mb wind increase to 30-40 kt tomorrow evening, and it will turn windier in the mountains and deserts then.

Thursday and Friday: The parent trough over the Pacific slowly moves inland across SoCal and it will turn noticeably cooler in the valleys, mountains and deserts. High temperatures will be several

May 25, 2017 Exceptional Event, Imperial County

degrees below average both days. Windy in the mountains and deserts with gusts of 30-40 mph in the afternoons and evenings with gusts of 50-55 mph in the wind prone areas. The marine layer will deepen to around 5000 feet Friday morning, and this deep moist layer combined with a weak shortwave aloft will likely produce areas of light rain/drizzle west of the mountains Thursday night/Friday morning.

Saturday through Monday: The trough slides east Friday night with weak high pressure rebuilding aloft along the West Coast for warm, dry weather through the holiday weekend. A shallow marine layer and weak onshore flow will keep coastal areas cooler.

&&

.AVIATION...

232000Z...Low clouds have begun to move ashore this afternoon and will again spread inland this evening after 04Z. These clouds will be based at about 800-1000 feet msl and spread 15-20 miles inland by 12Z Wed. Vis will be reduced to 1-3sm or lower where clouds and terrain intersect. Otherwise, mostly clear skies except for a few high clouds and afternoon cumulus over the mountains.

&&

.MARINE...

No hazardous marine weather is expected through Saturday.

&&

.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...Moede

AVIATION/MARINE...PG

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803
WWUS76 KSGX 240932
NPWSGX

URGENT - WEATHER MESSAGE
National Weather Service San Diego CA
232 AM PDT Wed May 24 2017

...Strong winds in parts of the desert...

.A low pressure trough and increasing onshore flow will boost winds in the desert this afternoon into Friday morning. Strongest winds will be in the San Gorgonio Pass into the northern Coachella Valley and in the Anza Borrego Desert during the late afternoons through the nights.

CAZ062-065-241800-
/O.NEW.KSGX.WI.Y.0025.170525T0000Z-170526T1500Z/
San Diego County Deserts-San Gorgonio Pass Near Banning-
Including the city of Desert Hot Springs
232 AM PDT Wed May 24 2017

...WIND ADVISORY IN EFFECT FROM 5 PM THIS AFTERNOON TO 8 AM PDT
FRIDAY...

The National Weather Service in San Diego has issued a Wind Advisory, which is in effect from 5 PM this afternoon to 8 AM PDT Friday.

- * WINDS...Westerly 25 to 35 mph with gusts to 50 mph.
- * TIMING...Late this afternoon through tonight...and again Thursday afternoon into early Friday morning.
- * LOCATION...Through and east of the San Gorgonio Pass into the northern Coachella Valley...and parts of the Anza Borrego Desert.
- * VISIBILITY...Locally reduced to 2 to 5 miles in blowing dust and sand.
- * IMPACTS...Blowing dust and locally hazardous driving conditions.

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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599
FXUS66 KSGX 240933
AFDSGX

Area Forecast Discussion
National Weather Service San Diego CA
233 AM PDT Wed May 24 2017

.SYNOPSIS...

Cooler weather is in the forecast through Friday as a weak trough of low pressure moves through the region. Low clouds will spread farther inland each day as the marine layer deepens. It will be windy in parts of the mountains and deserts. There is a slight chance of light showers from the coast to the foothills Thursday night into Friday morning. High pressure will rebuild over the West this holiday weekend for warmer weather and a shallower marine layer.

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

Coastal low clouds have been slowly advancing overnight, but not much if at all into the valleys. Some high clouds will continue to move across our sky coming from a weak low over the Pacific to our west. A fair and cooler day is expected as a low pressure trough bears down from the north and merges with that Pacific low today and tonight. That will deepen the marine layer and extend the low clouds into the valleys. It will also boost winds in the mountains and deserts. Small portions of this region will have strong winds. An advisory is in effect for gusty pockets in the northern Coachella Valley and the Anza Borrego Desert late this afternoon into Friday morning. The trough will deepen further Thursday and a shortwave will move through Southern California Thursday night into Friday morning. As the marine layer gets stretched out in the vertical, some light showers could result. Friday will be unseasonably cool with highs in the 60s west of the mountains, 50s and 60s in the mountains, and 70s and 80s in the deserts. The trough moves off and allows for some half-hearted ridge to build through the holiday weekend. The marine layer will gradually shallow while daytime temps will gradually rebound to slightly above average on Memorial Day. That means 70s near the coast and in the mountains, 80s and lower 90s in the inland valleys and high desert, and back over the century mark in the lower deserts. A weak trough appears on the horizon next week which would bring slightly cooler weather and more extensive coastal clouds.

&&

.AVIATION...

240900Z...Coast/Valleys...Widespread stratus near the coast and

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

about 10 SM inland with bases 400-800 ft MSL continuing through mid morning. Areas of vis 3-5 SM over higher coastal terrain and down to 1SM on coastal mesas/western valleys. Stratus clearing to the coast 16-18Z. Bases lifting to 1000-1500 this evening, reaching the coastal airports 03-06Z and spreading into the inland valleys overnight.

Mountains/Deserts...A few high clouds and unrestricted vis through Thu morning. Onshore winds becoming strong after 00Z this evening with gusts through the mountains and along the desert slopes up to 45 KTS along with mdt up/downdrafts...and patchy blowing dust/sand in the deserts.

&&

.MARINE...

No hazardous marine weather is expected through Sunday.

&&

.SKYWARN...

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

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...Wind Advisory from 5 PM this afternoon to 8 AM PDT Friday for San Diego County Deserts-San Gorgonio Pass Near Banning.

PZ...None.

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PUBLIC...MM

AVIATION/MARINE...Brotherton

**IOWA STATE
UNIVERSITY**

College of Ag

Department of Agronomy

┌
995
FXUS65 KPSR 240947
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
247 AM MST Wed May 24 2017

.SYNOPSIS...

High pressure moving across the region will bring one more day of well-above normal temperatures with high temperatures once again rising well above 100 degrees at many lower desert locations today. Afternoon and evening winds will also pick up in breeziness, especially across the southeast California and mountain passes and ridgetops. Cooler temperatures along with continued breeziness will develop for the latter part of the week and into the upcoming weekend as low pressure once again moves into and across the western US. This spring's rollercoaster trend of temperatures will continue into next week with a potential early week warm-up followed by another midweek cool down.

&&

.DISCUSSION...

Somewhat dirty ridging has settled over portions of the Great Basin/SW this morning, with a weak circ center over OR/NV and primary circ center west of the Baja Peninsula tip. Very weak shortwave feature cutting through central CA and towards the CO River Valley observed on evening RAOB and model streamline forecasts will follow the main ridge line movement through the region today and bring some increased ML moisture and few to scattered clouds from the west. Overnight PWAT imagery shows a subtle boundary of 0.5" moisture values across SoCal that will transition into AZ through the day, also support for the idea of some increasing, albeit few to scattered still, cloud coverage for the day. Primary impacts today will be the continued warm temperatures with 850mb around 26-27C at their warmest in the afternoon. Aircraft soundings from last evening into KPHX sampled 25-26C with a resulting high of 104C. Slightly warmer thermal profile and on-going WAA with increasing southerly flow will warm temperatures 104-107F for the south-central AZ deserts. The warmest spot looks to remain across the CO River Valley with 108-110s for Blythe and nearby locales. Widespread moderate HeatRisk levels remain for the majority of the forecast area and population with very limited pockets of high risk for a few portions of the south Phoenix area. Heat/health/safety precautions should be considered and enacted during the warm parts of the day.

By this evening an area of strong low pressure will move through the northern CONUS tier flattening high pressure heights across the Southwest. Enhancement of the sub-tropical jet will develop and nose into southern CA and the Southwest overnight and last

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

into Thursday. 85-90kt 250mb jet winds will lead to increasing surface winds, first for area ridgetops, mountain passes and higher terrain locales this evening. Advisory conditions will develop later this evening for the Fish Creek/Coyote Mountains and In-Ko-Pah area west of El Centro with pass level west-southwesterly gusts 45 mph or greater possible. Ridgetop winds will eventually mix and expand down into the lower elevations during the day Thursday with gusts for the western deserts ranging 35 to 50 mph. Gusts across southwest and south-central Arizona could range 20 to 30 mph. Visibility and air quality impacts are anticipated in the dust/sand prone areas, especially across southeast California. With all the wind and height falls transitioning into the area, high temperatures cool into the upper 90s to near 100 for Thursday and fall further for the end of the work week.

Temperatures take up a profile similar to that of a rollercoaster by the late weekend and into next week, all due strong upper jet over Pacific and shorter storm pattern wavelengths. A quick early week warm-up will build before another area of low pressure moves through, cooling temperatures again by mid-week. Fair bit of track difference and residence remain 6+ days out (to be expected), but unsettled conditions and even slight chances for some precipitation activity across eastern portions of AZ could develop.

&&

.AVIATION...

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

No aviation weather concerns through the overnight and into tomorrow morning with light, diurnal wind patterns. However, gusty afternoon westerly winds are expected for the Phoenix terminals with gusts up to 20 kts. Winds may create hazy skies and slantwise visibility issues during the afternoon.

Southeast California/Southwest Arizona including KIPL and KBLH:

No aviation weather concerns through the overnight and into tomorrow morning with light, diurnal wind patterns. However, gusty afternoon westerly winds are expected with possible gusts up to 30 kts. In addition, some blowing dust may temporarily reduce surface visibility but may also create slantwise visibility problems during the afternoon Wednesday.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...

Friday through Tuesday: Breezy southwesterly winds, with sustained speeds ranging from 10-20 mph, can be expected area-wide on Friday. A few gusts to 30 mph will also be possible. Temperatures will be

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

slightly below-normal as highs only reach the low 90s, but dry conditions will still result in minimum RH values of 10-15 percent. As a result, at least low-end elevated fire weather conditions look likely.

High pressure will build over the Great Basin this weekend into early next week, and will result in weakening winds and warmer temperatures. High temperatures of 100-105 are forecast across the lower deserts on Monday and Tuesday. A weak low pressure system may also develop off the southern California coast early next week, and advect modest amounts of moisture into eastern Arizona. Will have to monitor for the potential for isolated thunderstorms across the higher terrain of southern Gila County on Tuesday afternoon, but at this point lightning potential appears low.

&&

.SPOTTER INFORMATION STATEMENT...

Spotter reports should not be needed.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...None.

CA...Wind Advisory from 5 PM this afternoon to 5 AM PDT Friday for CAZ562.

Wind Advisory from 2 PM Thursday to 5 AM PDT Friday for CAZ566.

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Visit us on Facebook, Twitter, and at weather.gov/phoenix

DISCUSSION...Nolte

AVIATION...Deemer

FIRE WEATHER...Rogers

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060
FXUS66 KSGX 241555
AFDSGX

Area Forecast Discussion
National Weather Service San Diego CA
855 AM PDT Wed May 24 2017

.SYNOPSIS...

Cooler weather is in the forecast through Friday as a weak trough of low pressure moves through the region. Low clouds will spread farther inland each day as the marine layer deepens, and strong and gusty winds will occur in the mountains and deserts starting late this afternoon. The trough may create scattered light showers late Thursday night through early Friday morning over and west of the mountains. High pressure aloft will rebuild over the West this holiday weekend for warmer weather and a shallower marine layer. Another cooling trend likely to begin next Tuesday as another trough develops along the west coast.

&&

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

Marine layer stratus is covering the coastal waters, coast, inland Orange county and western San Diego county valleys this morning according to visible satellite, with scattered alto-cumulus clouds moving overhead from the southwest throughout Southern California. These alto-cumulus are associated with a short-wave trough, which can be seen on water vapor satellite imagery west of Point Conception moving northeast into Central California. A low can also be seen far offshore of Central California, with a stronger trough over British Columbia and a weakening ridge over Southern California. The 12Z Miramar sounding shows an 11 deg C inversion at around 1500 feet MSL. Onshore flow is strengthening quickly, with San Diego to Las Vegas onshore pressure gradients up to 7.1 mb, whereas they were 0.9 mb at this time yesterday. With the strengthening onshore flow and strong inversion, clearing of stratus may be slower than usual this morning and the beaches may not clear at all. Today through early Thursday, the trough over British Columbia will push south and start to pull the low far offshore of Central California towards the California coast while the aforementioned short-wave trough continues to move northeast into the Great Basin. This increased troughing in California will serve to further weaken the ridge over us and continue to increase the onshore pressure gradients, resulting in strong and gusty west winds along the mountain ridges, desert slopes, through the passes and into adjacent desert areas beginning late this afternoon. Wind gusts of 50 mph and local gusts of 60 mph will be possible in the through the San Geronio Pass and in the San Diego county deserts, where Wind Advisories have been issued. The lowering 500 mb

May 25, 2017 Exceptional Event, Imperial County

heights and onshore flow will also deepen the marine layer and bring a cooling trend for all areas today and Thursday, with highs dropping to several degrees below normal on Thursday. Expect marine layer stratus to move completely fill the coast and valleys tonight into Thursday morning.

As the low moves into Southern California Thursday night into Friday morning, it weakens into a short-wave and will bring another burst of strong and gusty winds to the mountains/deserts and further deepening of the marine layer, with stratus Thursday night/Friday morning filling the coastal basin and moving into the coastal slopes and passes. Large scale and hi-res models show some very light precipitation being generated over and west of the mountains late Thursday night into early Friday morning, resulting in scattered 0.01-0.05 inch amounts.

The trough will move to our northeast by Friday afternoon, with the cooler air mass resulting in highs 10-15 degrees below normal Friday. For Saturday through Monday, an upper level ridge to the west will move in and strengthen, creating a warming trend and a shallower marine layer. Highs are likely to reach back to normal to slightly above normal levels on Sunday and then 5-10 degrees above normal on Monday. Expect night and morning marine layer stratus over coastal areas and western valleys during this period.

For Tuesday through late next week, models tend to show a trough moving in along the west coast, bringing a cooling trend. However, the amount of cooling is uncertain due to model differences in the strength of the trough.

&&

.AVIATION...

241553Z...Coast/Valleys...Widespread low clouds with bases 500-1000 feet msl with tops to near 2000 feet MSL extending inland to just west of KONT and KRNM. Areas of vis 3-5 SM over higher coastal terrain and down to 1SM on coastal mesas/western valleys. Stratus clearing back to near the coast midday. Risk of bkn low clouds at least part of the afternoon at KSAN and KSNA is moderate so confidence of bkn low clouds at times into the afternoon is moderate as well for KSNA and KSAN.

Mountains/Deserts...A few high clouds and unrestricted vis through Thu morning. Onshore winds becoming strong after 00Z this evening with gusts through the mountains and along the desert slopes up to 45 KTS along with mdt up/downdrafts...and patchy blowing dust/sand in the deserts.

&&

.MARINE...

No hazardous marine weather is expected through Sunday.

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May 25, 2017 Exceptional Event, Imperial County**Appendix A**

.SKYWARN...

Skywarn activation will not be needed today.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...Wind Advisory from 5 PM this afternoon to 8 AM PDT Friday for
San Diego County Deserts-San Gorgonio Pass Near Banning.

PZ...None.

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PUBLIC...Harrison

AVIATION/MARINE...Small

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850
WWUS76 KSGX 241743
NPWSGX

URGENT - WEATHER MESSAGE
National Weather Service San Diego CA
1043 AM PDT Wed May 24 2017

...Strong winds in parts of the desert...

.A low pressure trough and increasing onshore flow will boost winds in the desert this afternoon through Friday morning. Strongest winds will be in the San Gorgonio Pass into the northern Coachella Valley and in the Anza Borrego Desert during the late afternoons through the night-time hours.

CAZ062-065-250200-
/O.CON.KSGX.WI.Y.0025.170525T0000Z-170526T1500Z/
San Diego County Deserts-San Gorgonio Pass Near Banning-
Including the city of Desert Hot Springs
1043 AM PDT Wed May 24 2017

...WIND ADVISORY REMAINS IN EFFECT FROM 5 PM THIS AFTERNOON TO 8 AM PDT FRIDAY...

* WINDS...Westerly 25 to 35 mph with gusts to 55 mph and locally to 65 mph.

* TIMING...Late this afternoon through tonight, and again Thursday afternoon into early Friday morning.

* LOCATION...Through and east of the San Gorgonio Pass into the northern Coachella Valley...and parts of the Anza Borrego Desert.

* VISIBILITY...Locally reduced to 2 to 5 miles in blowing dust and sand.

* IMPACTS...Hazardous driving conditions for high profile vehicles. Blowing dust reducing visibilities for motorists.

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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Harrison

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641
FXUS66 KSGX 242028
AFDSGX

Area Forecast Discussion
National Weather Service San Diego CA
128 PM PDT Wed May 24 2017

.SYNOPSIS...

Cooler weather is in the forecast through Friday as a weak trough of low pressure moves through the region. Low clouds will spread farther inland each night and morning as the marine layer deepens, and strong and gusty winds will occur in the mountains and deserts starting late this afternoon. The trough may create patchy drizzle in the coast and valleys tonight into Thursday morning and scattered light showers over and west of the mountains late Thursday night through early Friday morning. High pressure aloft will rebuild over the West this holiday weekend for warmer weather and a shallower marine layer. Another cooling trend likely to begin next Tuesday as another trough develops near Southern California.

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

Marine layer stratus has diminished for the most part this afternoon according to visible satellite, with scattered alto-cumulus clouds moving overhead from the southwest throughout Southern California. These alto-cumulus are associated with a short-wave trough, which can be seen on water vapor satellite imagery moving northeast over Central California. A low can also be seen far offshore of Central California, with a stronger trough over British Columbia and a weakening ridge over Southern California. The 12Z Miramar sounding shows an 11 deg C inversion at around 1500 feet MSL. Onshore flow is strengthening quickly, with San Diego to Las Vegas onshore pressure gradients up to 10.8 mb, whereas they were 2.2 mb at this time yesterday. Despite the strengthening onshore flow and strong inversion, stratus managed to clear at the beaches today. Today through early Thursday, the trough over British Columbia will push south and start to pull the low far offshore of Central California towards the California coast while the aforementioned short-wave trough continues to move northeast into the Great Basin. This increased troughing in California will serve to further weaken the ridge over us and continue to increase the onshore pressure gradients, resulting in strong and gusty west winds along the mountain ridges, desert slopes, through the passes and into adjacent desert areas beginning late this afternoon. Wind gusts of 55 mph and local gusts of 65 mph will be possible in and through the San Geronio Pass and in the San Diego county deserts, where Wind Advisories

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

have been issued. The lowering 500 mb heights and onshore flow will also deepen the marine layer and bring a cooling trend for all areas today and Thursday, with highs dropping to several degrees below normal on Thursday. Temperatures currently are 5-15 degrees below what they were 24 hours ago over much of the region. Expect marine layer stratus to move completely fill the coast and valleys tonight into Thursday morning with patchy drizzle possible.

As the low moves into Southern California Thursday night into Friday morning, it weakens into a short-wave and will bring another burst of strong and gusty winds to the mountains/deserts and further deepening of the marine layer, with stratus Thursday night/Friday morning filling the coastal basin and moving into the coastal slopes and passes. Large scale and hi-res models show some very light precipitation being generated over and west of the mountains late Thursday night into early Friday morning, resulting in scattered 0.01-0.05 inch amounts.

The trough will move to our northeast by Friday afternoon, with the cooler air mass resulting in highs 10-15 degrees below normal Friday. For Saturday through Monday, an upper level ridge to the west will move in and strengthen, creating a warming trend and a shallower marine layer. Highs are likely to reach back to normal to slightly above normal levels on Sunday and then 5-10 degrees above normal on Monday. Expect night and morning marine layer stratus over coastal areas and western valleys during this period.

For Tuesday through late next week, the GFS and ECMWF now show a closed low (possibly of the cut-off variety) developing near or south of Southern California. This would likely bring cooling. However, models don't show any precip associated with this low at the moment.

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.AVIATION...

242021Z...Coast/Valleys...SCT-BKN low clouds with bases 1000-1500 feet MSL with tops to near 2000 feet MSL over the coastal waters will extend inland after about 25/03Z this evening...reaching inland to KONT and KRNM by about 25/08Z tonight. Areas of vis 3-5 SM over higher coastal terrain and down to 1SM on coastal mesas/western valleys. Stratus clearing back to near the coast midday Thursday. Moderate risk of bkn low clouds at KSAN is now backed off to around 25/03Z so confidence in bkn low cloud return at that time is moderate.

Mountains/Deserts...A few high clouds and unrestricted vis. Onshore winds becoming strong after 00Z this evening with gusts through the mountains and along the desert slopes up to 45 KTS along with moderate up/downdrafts...and patchy blowing dust/sand in the deserts.

&&

.MARINE...

No hazardous marine weather is expected through Sunday.

&&

.SKYWARN...

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

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...Wind Advisory from 5 PM this afternoon to 8 AM PDT Friday for San Diego County Deserts-San Gorgonio Pass Near Banning.

PZ...None.

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PUBLIC...Harrison

AVIATION/MARINE...Small

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121
WWUS75 KPSR 240942
NPWPSR

URGENT - WEATHER MESSAGE
National Weather Service Phoenix AZ
242 AM MST Wed May 24 2017

CAZ562-242200-
/O.NEW.KPSR.WI.Y.0020.170525T0000Z-170526T1200Z/
Imperial County Southwest-
Including the city of Mountain Spring
242 AM PDT Wed May 24 2017

...WIND ADVISORY IN EFFECT FROM 5 PM THIS AFTERNOON TO 5 AM PDT
FRIDAY...

The National Weather Service in Phoenix has issued a Wind
Advisory, which is in effect from 5 PM this afternoon to 5 AM PDT
Friday.

- * AFFECTED AREA...Far southwest Imperial County.
- * TIMING...This afternoon through Friday morning.
- * WINDS...West winds 25 to 35 mph with gusts to 50 mph.
- * IMPACTS...Elevated winds and strong gusts may create dangerous
driving conditions for high profile vehicles along Interstate
8 west of El Centro. Locally reduced visibilities due to
blowing dust are also possible.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

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

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CAZ566-242200-
/O.NEW.KPSR.WI.Y.0020.170525T2100Z-170526T1200Z/
Imperial County West-
Including the cities of Coolidge Springs, Salton City, Winona,
Coyote Wells, Ocotillo, and Plaster City
242 AM PDT Wed May 24 2017

May 25, 2017 Exceptional Event, Imperial County

...WIND ADVISORY IN EFFECT FROM 2 PM THURSDAY TO 5 AM PDT
FRIDAY...

The National Weather Service in Phoenix has issued a Wind Advisory, which is in effect from 2 PM Thursday to 5 AM PDT Friday.

- * AFFECTED AREA...Far western Imperial County.
- * TIMING...Thursday afternoon through Friday morning.
- * WINDS...West winds 25 to 35 mph with gusts to 50 mph.
- * IMPACTS...Elevated winds and strong gusts may create dangerous driving conditions for high profile vehicles. Locally reduced visibilities due to blowing dust are also possible.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

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

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199
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AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
245 PM MST Wed May 24 2017

.SYNOPSIS...

The high pressure system over the region that produced above normal afternoon temperatures will weaken tonight as several weather systems move into the western states. Although dry weather is forecast, gusty afternoon southwest winds can be expected through Saturday. Also, afternoon temperatures on the lower deserts will cool into the 90s, or below normal temperatures. Dry weather with warmer temperatures are expected beginning Sunday and continuing through next week.

&&

Tonight through Saturday...

The high pressure system over the region which resulted in anomalously hot afternoons will break down this evening, as a series of weather systems move into the western states. Although dry weather is forecast through Friday, cooler and windy afternoons are expected.

Gusty winds are slated for this evening, blowing strongest in Imperial County where advisories continue tonight. Nearly the same magnitude winds are expected Thursday afternoon and evening, but less strong Friday. The coolest days will be Thursday, Friday and Saturday when temperatures drop below 100 on the deserts, and below normal.

Sunday and Monday...

Dry westerly flow aloft with warmer days are forecast. Desert temperatures will warm back to slightly above 100 degrees. Much lighter afternoon southwest winds are also expected.

Tuesday and Wednesday...

This is an uncertain period with regards a northward flow of Mexican moisture across eastern AZ, and the potential for afternoon/evening thunderstorms. Both the GFS and European solutions this far suggest a weak Pacific upper low developing along the northern Baja Tuesday and Wednesday to circulate the moisture north. At this point we introduced a slight chance of afternoon and evening thunderstorms over the highest terrain in eastern southern Gila County bordering the white mountains on Tuesday. Breezy south to southwest winds are

May 25, 2017 Exceptional Event, Imperial County

also expected to reappear Tuesday and Wednesday afternoons.

&&

.AVIATION...

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

A dry Pacific weather system is approaching the southern California coast which will result in gusty afternoon west winds this evening and again Thursday evening. Through 06z Thu, clear skies. Gusty west to southwest winds 15 to 25 knots. From 06z Thu to 20z Thu, clear skies. south winds 4 to 8 knots. From 20z Thu to 03z Fri, clear skies. Gusty west to southwest winds 15 to 25k knots.

Southeast California/Southwest Arizona including KIPL and KBLH:

A dry Pacific weather system is approaching the southern California coast which will result in gusty afternoon west winds this evening and again Thursday evening. Through 07z Thu, clear skies. Gusty south to southwest winds 15 to 30 knots, strongest vicinity KIPL. From 07z Thu through 19z Thu, clear skies. South wind 6 to 12 knots. From 19z Thu through 03z Fri, clear skies. Gusty southwest winds 15 to 30 knots.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...

Saturday through Wednesday:

Wind speeds will weaken by Saturday, compared to earlier in the week, as a pronounced area of high pressure builds over the Great Basin. Temperatures will also be near or slightly below seasonal normals on Saturday, with highs in the low-mid 90s. Warmer temperatures will occur by Sunday, with highs near 100 degrees, and will remain similar each day through the middle of the week. Winds will also be generally light during this period.

A weak Pacific low pressure system will develop and move eastward towards the Southwest, and could result in a slight chance for thunderstorms across the higher terrain of east-central Arizona, including southern Gila County. However, confidence in any rain or lightning potential is still low this far out.

&&

.SPOTTER INFORMATION STATEMENT...

Spotter reports should not be needed.

&&

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...None.

CA...Wind Advisory from 5 PM this afternoon to 5 AM PDT Friday for CAZ562.

Wind Advisory from 2 PM Thursday to 5 AM PDT Friday for CAZ566.

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DISCUSSION...Vasquez

AVIATION...Vasquez

FIRE WEATHER...Vasquez

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WWUS76 KSGX 250040
NPWSGX

URGENT - WEATHER MESSAGE
National Weather Service San Diego CA
540 PM PDT Wed May 24 2017

...Strong winds in parts of the desert...

.A low pressure trough and increasing onshore flow will boost winds in the desert through Friday morning. Strongest winds will be in the San Gorgonio Pass into the northern Coachella Valley and in the Anza Borrego Desert tonight and again Thursday afternoon into early Friday morning.

CAZ062-065-251300-
/O.CON.KSGX.WI.Y.0025.000000T0000Z-170526T1500Z/
San Diego County Deserts-San Gorgonio Pass Near Banning-
Including the city of Desert Hot Springs
540 PM PDT Wed May 24 2017

...WIND ADVISORY REMAINS IN EFFECT UNTIL 8 AM PDT FRIDAY...

- * WINDS...Westerly 25 to 35 mph with gusts to 55 mph and locally to 65 mph.
- * TIMING...Tonight, and again Thursday afternoon into early Friday morning.
- * LOCATION...Through and east of the San Gorgonio Pass into the northern Coachella Valley...and parts of the Anza Borrego Desert.
- * VISIBILITY...Locally reduced to 2 to 5 miles in blowing dust and sand.
- * IMPACTS...Hazardous driving conditions for high profile vehicles. Blowing dust reducing visibilities for motorists.

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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Gregoria

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054
FXUS65 KPSR 250437
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
937 PM MST Wed May 24 2017

.SYNOPSIS...

The high pressure system over the region that produced above normal afternoon temperatures will weaken tonight as several weather systems move into the western states. Although dry weather is forecast, gusty afternoon southwest winds can be expected through Saturday. Also, afternoon temperatures on the lower deserts will cool into the 90s, or below normal temperatures. Dry weather with warmer temperatures are expected beginning Sunday and continuing through next week.

&&

.DISCUSSION...

Complex flow pattern over western North America and the northeast Pacific. In general there is troughing centered near the coast but with 3 distinct systems embedded. Offshore is a narrow high amplitude ridge with significant undercutting flow making it's way into the Southwest states. The ridge that was over us has been pushed eastward but the cooler air in the lower levels lags behind and will be slowly moving into our area tonight through Friday for a cooling trend. This will be quite welcome as we had another hot day today (at or near records at some locations including Phoenix and Yuma) - even hotter than expected for portions of SE CA and SW AZ which didn't see any cooling (contrary to model depictions). Breeziness (mainly afternoon and evenings) will continue as well. A wind prone location in western Imperial County will continue to have locally strong winds and thus a Wind Advisory remains in effect there. Aloft, an upper low centered off the California coast will weaken as it moves inland and merges with the main system moving through the western CONUS. Too dry for any precip unfortunately. Early next week, the ridge moves inland and we see triple digit highs on the deserts again.

&&

.PREVIOUS DISCUSSION...Issued 245 pm MST/PDT...

Tonight through Saturday...

The high pressure system over the region which resulted in anomalously hot afternoons will break down this evening, as a series of weather systems move into the western states. Although dry weather is forecast through Friday, cooler and windy afternoons are expected.

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

Gusty winds are slated for this evening, blowing strongest in Imperial County where advisories continue tonight. Nearly the same magnitude winds are expected Thursday afternoon and evening, but less strong Friday. The coolest days will be Thursday, Friday and Saturday when temperatures drop below 100 on the deserts, and below normal.

Sunday and Monday...

Dry westerly flow aloft with warmer days are forecast. Desert temperatures will warm back to slightly above 100 degrees. Much lighter afternoon southwest winds are also expected.

Tuesday and Wednesday...

This is an uncertain period with regards a northward flow of Mexican moisture across eastern AZ, and the potential for afternoon/evening thunderstorms. Both the GFS and European solutions this far suggest a weak Pacific upper low developing along the northern Baja Tuesday and Wednesday to circulate the moisture north. At this point we introduced a slight chance of afternoon and evening thunderstorms over the highest terrain in eastern southern Gila County bordering the white mountains on Tuesday. Breezy south to southwest winds are also expected to reappear Tuesday and Wednesday afternoons.

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.AVIATION...

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

Southeast California/Southwest Arizona including KIPL and KBLH:

Moderate to strong southwesterly flow aloft will continue through Thursday. Southwest and west breeziness will continue to weaken tonight (more slowly over the Imperial Valley). Breeziness returns Thursday afternoon. In between, for metro Phoenix, anticipate a period of relatively light southeasterly surface winds (roughly 09Z-17Z). Otherwise, expect the mid-high high clouds to continue decreasing from west to east.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...

Saturday through Wednesday:

Wind speeds will weaken by Saturday, compared to earlier in the week, as a pronounced area of high pressure builds over the Great Basin. Temperatures will also be near or slightly below seasonal normals on Saturday, with highs in the low-mid 90s. Warmer temperatures will occur by Sunday, with highs near 100 degrees, and will remain similar each day through the middle of the week. Winds will also be generally light during this period.

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

A weak Pacific low pressure system will develop and move eastward towards the Southwest, and could result in a slight chance for thunderstorms across the higher terrain of east-central Arizona, including southern Gila County. However, confidence in any rain or lightning potential is still low this far out.

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.SPOTTER INFORMATION STATEMENT...

Spotter reports should not be needed.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...None.

CA...Wind Advisory until 5 AM PDT Friday for CAZ562.

Wind Advisory from 2 PM Thursday to 5 AM PDT Friday for CAZ566.

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DISCUSSION...AJ

PREVIOUS DISCUSSION...Vasquez

AVIATION...AJ

FIRE WEATHER...Vasquez

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FXUS65 KPSR 250916
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
216 AM MST Thu May 25 2017

.SYNOPSIS...

The high pressure system over the region that produced above normal afternoon temperatures will weaken tonight as several weather systems move into the western states. Although dry weather is forecast, gusty afternoon southwest winds can be expected through Saturday. Also, afternoon temperatures on the lower deserts will cool into the 90s, or below normal temperatures. Dry weather with warmer temperatures are expected beginning Sunday and continuing through next week.

&&

.DISCUSSION...

Considerable high level cloudiness spans much of the AZ and SE CA International Border this early morning, moving SW to NE. Upper ridge axis that brought us a stretch of warm weather has cleared well to our east this morning as broad troughing spans from the central Canadian provinces, down through the northern Rockies and through northern CA. Subtropical jetstreak enhancement began last evening over Baja California, evident in cirrus blowoff over the Baja Spine streaming into the area overnight. Mid-level height falls and 1000-500mb thicknesses have begun to trend downward as troughing sinks and turns to swing into the area. Combination of height falls and upper jet proximity have created gusty pass level winds across southeast California already this evening and those will persist as well as expand down into the lower desert elevations with the strongest winds focused along and west of the Colorado River Valley. Gusts for the western CWA and southwest Arizona will range 30 to 40 mph by the afternoon and 20 to 30 mph for the south-central AZ deserts. Visibility and air quality impacts are anticipated in the dust/sand prone areas, especially across southeast California. Subtle CAA and theta-E ridging will support a temperature cool down starting today with 8 to 12 degrees of cooling anticipated. Temperatures will cool further still as troughing persists over the Great Basin and Southwest for the end of the week and early weekend, with slightly below normal temperatures forecast through Saturday.

High amplitude ridging will build back over the West Coast over the weekend and transition back into the Southwest for Sunday and Monday. Desert temperatures will head north of triple-digit readings again.

By late Monday and into early next week, high amplitude wave pattern over the Pacific and western CONUS will begin to be

May 25, 2017 Exceptional Event, Imperial County

undercut by a strong Pacific jet. A piece of energy becomes cutoff from the upper jet streak/storm branch, developing off-shore northern Baja Tuesday. To our east, high pressure circulation will develop over TX through the 850-700mb layer. Low and mid-level flow will become southerly in nature, drawing moisture northward into the eastern portions of Arizona. Slight chances for afternoon and evening thunderstorms remains for the eastern most portions of southern Gila county through midweek. Breezy south to southwest winds are also expected to reappear Tuesday and Wednesday afternoons. Temperatures will trend slightly cooler with more atmospheric moisture and lower heights in the region again, near late May/early June normals.

&&

.AVIATION...

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

Southeast California/Southwest Arizona including KIPL and KBLH:

Moderate to strong southwesterly flow aloft will continue through Thursday. Southwest and west breeziness will continue to weaken tonight (more slowly over the Imperial Valley). Breeziness returns Thursday afternoon. In between, for metro Phoenix, anticipate a period of relatively light southeasterly surface winds (roughly 09Z-17Z). Otherwise, expect the mid-high high clouds to continue decreasing from west to east.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

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.FIRE WEATHER...

Saturday through Wednesday:

Wind speeds will weaken by Saturday, compared to earlier in the week, as a pronounced area of high pressure builds over the Great Basin. Temperatures will also be near or slightly below seasonal normals on Saturday, with highs in the low-mid 90s. Warmer temperatures will occur by Sunday, with highs near 100 degrees, and will remain similar each day through the middle of the week. Winds will also be generally light during this period.

A weak Pacific low pressure system will develop and move eastward towards the Southwest, and could result in a slight chance for thunderstorms across the higher terrain of east-central Arizona, including southern Gila County. However, confidence in any rain or lightning potential is still low this far out.

&&

.SPOTTER INFORMATION STATEMENT...

Spotter reports should not be needed.

&&

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...None.

CA...Wind Advisory until 5 AM PDT Friday for CAZ562.

Wind Advisory from 2 PM this afternoon to 5 AM PDT Friday for CAZ566.

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DISCUSSION...Nolte

AVIATION...AJ

FIRE WEATHER...Vasquez

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WWUS75 KPSR 250918
NPWPSR

URGENT - WEATHER MESSAGE
National Weather Service Phoenix AZ
218 AM MST Thu May 25 2017

CAZ562-252200-
/O.CON.KPSR.WI.Y.0020.000000T0000Z-170526T1200Z/
Imperial County Southwest-
Including the city of Mountain Spring
218 AM PDT Thu May 25 2017

...WIND ADVISORY REMAINS IN EFFECT UNTIL 5 AM PDT FRIDAY...

- * AFFECTED AREA...Far southwest Imperial County.
- * TIMING...Now through early Friday morning.
- * WINDS...West winds 25 to 35 mph with gusts to 50 mph.
- * IMPACTS...Elevated winds and strong gusts may create dangerous driving conditions for high profile vehicles along Interstate 8 west of El Centro. Locally reduced visibilities due to blowing dust are also possible.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

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

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CAZ566-252200-
/O.CON.KPSR.WI.Y.0020.170525T2100Z-170526T1200Z/
Imperial County West-
Including the cities of Coolidge Springs, Salton City, Winona,
Coyote Wells, Ocotillo, and Plaster City
218 AM PDT Thu May 25 2017

...WIND ADVISORY REMAINS IN EFFECT FROM 2 PM THIS AFTERNOON TO
5 AM PDT FRIDAY...

- * AFFECTED AREA...Far western Imperial County.

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

- * TIMING...This afternoon through Friday morning.
- * WINDS...West winds 25 to 35 mph with gusts to 50 mph.
- * IMPACTS...Elevated winds and strong gusts may create dangerous driving conditions for high profile vehicles. Locally reduced visibilities due to blowing dust are also possible.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

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

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350
FXUS66 KSGX 250937
AFDSGX

Area Forecast Discussion
National Weather Service San Diego CA
237 AM PDT Thu May 25 2017

.SYNOPSIS...

Cooler and cloudier weather is forecast from the mountains westward through Friday as a weak trough of low pressure moves through the region. Scattered light showers are expected tonight and Friday morning. Strong winds will continue in parts of the mountains and deserts through Friday. Higher pressure will push down the marine layer and bring warmer weather this holiday weekend. Fair and seasonal weather will continue next week.

&&

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

The marine layer has deepened and has filled the entire coastal basin with clouds right on schedule this morning. The cloud bases are also rising so little if any fog and drizzle is expected. Wave clouds to the southeast will gradually move on as the coastal low clouds clear this morning. The low clouds may not completely clear before increasing again late this afternoon. Winds in parts of the mountains and deserts will continue pretty strong through tonight, particularly east of San Geronimo Pass and in the Anza Borrego Desert. A low pressure trough will send a weak shortwave right through Southern California tonight into Friday morning. That will deepen the marine layer to at least 5000 feet and provide enough lift to wring out some light showers from the coast to the mountain slopes. It could make for a damp commute Friday morning in some areas. Not much accumulation if any; highest forecast amounts reach all of a tenth inch. It will be cool Friday with highs almost entirely in the 60s in the coastal basin, 50s and 60s in the mountains, 70s in the high desert and around 90 in the lower desert (yes, that's cool for them). As the trough moves out replaced by higher pressure this weekend, seasonable and reasonable weather returns with a well-behaved marine layer. Holiday highs will be around 70 along the coast, mid 70s to lower 90s inland, 90s in the high desert and well over 100 in the lower desert. After the holiday a very weak trough of low pressure wobbles around the region for a while. That would deepen the marine layer slightly and bring a gentle cooling trend. There appears to be some increase in higher clouds from southern latitudes as well.

&&

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

.AVIATION...

250900Z...Coast/Valleys/Coastal Mountain Slopes...Stratus with bases 1500-2000 ft MSL will continue this morning and gradually lift to 2000-2500 ft by 16Z. Clearing expected to occur 16-19Z, though coastal airports may remain BKN-OVC through much of the afternoon. Clouds becoming BKN-OVC along/west of the mountains after 26/02Z with bases near 2500 ft MSL and tops 4000-5000 ft MSL. Coastal slopes of the mtns obscured in clouds/fog at times through Fri morning. Isolated showers Friday 12Z-18Z.

Mountains/Deserts...Southwest to west winds with sfc gusts 35-45 kt along the desert slopes/foothills and through the passes continuing through Fri morning with MOD-STG UDDFS and pockets of LLWS over and NE/E of the mountains.

&&

.MARINE...

No hazardous marine weather is expected through Monday.

&&

.SKYWARN...

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

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...Wind Advisory until 8 AM PDT Friday for San Diego County Deserts-San Gorgonio Pass Near Banning.

PZ...None.

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PUBLIC...MM

AVIATION/MARINE...Brotherton

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WWUS76 KSGX 250946
NPWSGX

URGENT - WEATHER MESSAGE
National Weather Service San Diego CA
246 AM PDT Thu May 25 2017

...Strong winds in parts of the desert through tonight...

.A low pressure trough and strong onshore flow will boost winds in the desert through tonight. Strongest winds will be in the San Gorgonio Pass into the northern Coachella Valley and in the Anza Borrego Desert. Winds will diminish Friday morning.

CAZ062-065-252100-
/O.CON.KSGX.WI.Y.0025.000000T0000Z-170526T1500Z/
San Diego County Deserts-San Gorgonio Pass Near Banning-
Including the city of Desert Hot Springs
246 AM PDT Thu May 25 2017

...WIND ADVISORY REMAINS IN EFFECT UNTIL 8 AM PDT FRIDAY...

* WINDS...Westerly 25 to 35 mph with gusts to 55 mph.

* TIMING...Through early Friday morning.

* LOCATION...Through and east of the San Gorgonio Pass into the northern Coachella Valley...and parts of the Anza Borrego Desert.

* VISIBILITY...Locally reduced to 2 to 5 miles in blowing dust and sand.

* IMPACTS...Hazardous driving conditions for high profile vehicles. Blowing dust reducing visibilities for motorists.

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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FXUS66 KSGX 251422
AFDSGX

Area Forecast Discussion
National Weather Service San Diego CA
722 AM PDT Thu May 25 2017

.SYNOPSIS...

Cooler weather is in the forecast through Friday as a weak trough of low pressure moves through the region. Low clouds west of the mountains this morning may only partially clear today and then move farther inland into the coastal slopes and passes tonight. Strong and gusty winds will occur in the mountains and deserts through early Friday. The trough may create scattered light showers over and west of the mountains late tonight through early Friday morning. High pressure aloft will rebuild over the West this holiday weekend for warmer weather and a shallower marine layer. Another cooling trend may begin next Tuesday as another trough develops near Southern California.

&&

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

Morning visible satellite shows widespread marine layer stratus over the coastal waters, coast, and valleys, with mountain wave clouds over the southeast San Diego deserts and Imperial County. Elsewhere, skies were clear. Water vapor satellite shows a short-wave trough offshore of Point Conception and a deeper, stronger trough over the Inter-Mountain west. The 12Z Miramar sounding showed significant deepening of the marine layer, with a 10 deg C inversion noted at around 3500 feet MSL. Onshore flow continues to strengthen as well, with onshore pressure gradients from San Diego to Las Vegas up to 14.6 mb, compared to 7.1 mb at this time yesterday. Winds in the mountain ridges, desert slopes and passes are gusting around 30-40 mph, with the highest gusts of 57 mph in the San Gorgonio Pass area. Although hi-res models show winds weakening slightly today, they should increase again tonight as the short-wave moves through Southern California tonight into Friday morning. A Wind Advisory continues for the San Gorgonio Pass area and the San Diego county deserts through 8 AM Friday, with gusts of 55 mph and locally 65 mph likely. Also, with the strong onshore flow and deep marine layer, typically this results in only partial clearing of marine layer clouds at best during the day. The marine layer will deepen further tonight, up to around 5000 feet MSL. The short-wave moving through the region will likely bring scattered light showers over and west of the mountains tonight into early Friday morning, with scattered amounts of 0.01-0.05 inches. Many places may only see a trace. The colder air mass will result in highs 5-10 degrees below normal

May 25, 2017 Exceptional Event, Imperial County

today and up to 15 degrees below normal on Friday.

A ridge to the west will start to strengthen and build over the region Saturday through Monday, resulting in increasingly warmer days and a shallower marine layer. By Sunday, highs will reach back above normal, and then perhaps 5-10 degrees above normal on Monday. Night and morning stratus will likely only affect the coastal and western valley areas.

A trough will develop over Southern California/Baja Tuesday through Thursday, with a closed low perhaps developing. This may result in another cooling trend and perhaps some deepening of the marine layer.

&&

.AVIATION...

251415Z...Coast/Valleys/Coastal Mountain Slopes...Low clouds with bases generally 2500-3500 feet MSL. Conditions likely to remain BKN-OVC through much of the afternoon. Tops near 4000 feet increasing to 4500-5500 ft MSL by Friday morning. Coastal mountain slopes mostly obscured below 5500 feet MSL through Fri morning. Risk of BKN-OVC all day low clouds at KSAN is moderate-high. Confidence in KSAN TAF cloud coverage and base height is moderate-high. Isolated showers Friday morning around 25/12Z-25/18Z.

Mountains/Deserts...Southwest to west winds with surface gusts 35-45 kt along the desert slopes/foothills and through the passes continuing through Fri morning with moderate to strong up and downdrafts along with pockets of wind shear over and NE/E of the mountains.

&&

.MARINE...

No hazardous marine weather is expected through Monday.

&&

.SKYWARN...

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

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...Wind Advisory until 8 AM PDT Friday for San Diego County Deserts-San Gorgonio Pass Near Banning.

PZ...None.

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818
FXUS65 KPSR 251610
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
910 AM MST Thu May 25 2017

.SYNOPSIS...

The high pressure system over the region that produced above normal afternoon temperatures will weaken tonight as several weather systems move into the western states. Although dry weather is forecast, gusty afternoon southwest winds can be expected through Saturday. Also, afternoon temperatures on the lower deserts will cool into the 90s, or below normal temperatures. Dry weather with warmer temperatures are expected beginning Sunday and continuing through next week.

&&

.DISCUSSION...

Dry southwest flow aloft was in place across far SE California and Arizona this morning, clearly evident in the morning plot and raob data. The southwest flow was ahead of a deepening trof setting up across the pacific northwest; 500mb heights were down 50-70m this morning and we can expect some of this cooling aloft to translate to the surface today. Phoenix will be lowering down to near 100 degrees this afternoon with the warmer lower deserts to peak out slightly above the triple digit mark. Gradients have been tightening ahead of the developing trof and we will see breezy to windy conditions develop during the afternoon today, especially over the western deserts of far SE California. Currently a wind advisory remains in effect for the far southwest portion of Imperial county which is in a very wind prone area and typically blows hard in association with approaching trofs.

One feature of interest this morning was continued lee cirrus blowoff emanating from the mountains of far northern Baja CA, just south of Imperial county. High clouds have been spreading northeast into much of southern AZ and will likely linger into the afternoon today in association with a persistent upper jet that more or less bisects the state with the axis running from near the 4 corners southwestward towards Yuma. As the jet axis slowly shifts to the southeast today there should be some clearing of the high cloud from the northwest, but continued lee blowoff cirrus may persist into the afternoon as the upper jet will stay in its current position for a good part of the day. Current forecast looks to be in good shape and no substantial changes have been made.

.PREVIOUS DISCUSSION...

Considerable high level cloudiness spans much of the AZ and SE CA International Border this early morning, moving SW to NE. Upper ridge axis that brought us a stretch of warm weather has cleared

- May 25, 2017 Exceptional Event, Imperial County

well to our east this morning as broad troughing spans from the central Canadian provinces, down through the northern Rockies and through northern CA. Subtropical jetstreak enhancement began last evening over Baja California, evident in cirrus blowoff over the Baja Spine streaming into the area overnight. Mid-level height falls and 1000-500mb thicknesses have begun to trend downward as troughing sinks and turns to swing into the area. Combination of height falls and upper jet proximity have created gusty pass level winds across southeast California already this evening and those will persist as well as expand down into the lower desert elevations with the strongest winds focused along and west of the Colorado River Valley. Gusts for the western CWA and southwest Arizona will range 30 to 40 mph by the afternoon and 20 to 30 mph for the south-central AZ deserts. Visibility and air quality impacts are anticipated in the dust/sand prone areas, especially across southeast California. Subtle CAA and theta-E ridging will support a temperature cool down starting today with 8 to 12 degrees of cooling anticipated. Temperatures will cool further still as troughing persists over the Great Basin and Southwest for the end of the week and early weekend, with slightly below normal temperatures forecast through Saturday.

High amplitude ridging will build back over the West Coast over the weekend and transition back into the Southwest for Sunday and Monday. Desert temperatures will head north of triple-digit readings again.

By late Monday and into early next week, high amplitude wave pattern over the Pacific and western CONUS will begin to be undercut by a strong Pacific jet. A piece of energy becomes cutoff from the upper jet streak/storm branch, developing off-shore northern Baja Tuesday. To our east, high pressure circulation will develop over TX through the 850-700mb layer. Low and mid-level flow will become southerly in nature, drawing moisture northward into the eastern portions of Arizona. Slight chances for afternoon and evening thunderstorms remains for the eastern most portions of southern Gila county through midweek. Breezy south to southwest winds are also expected to reappear Tuesday and Wednesday afternoons. Temperatures will trend slightly cooler with more atmospheric moisture and lower heights in the region again, near late May/early June normals.

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.AVIATION...

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

Southeast California/Southwest Arizona including KIPL and KBLH:

Westerly winds will increase today area-wide, with the strongest gusts expected across southeast California, where gusts to near 30 kt are forecast. Winds will be slightly weaker over metro Phoenix, but still expecting gusts to 25 kt to develop by 19Z and persist into the late evening. Winds should eventually weaken by 08Z at KPHX/KIWA and switch towards the east. West winds will

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

persist throughout the entire TAF period at KIPL. Periods of high clouds will persist throughout the day, but should begin to clear out overnight.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...

Saturday through Wednesday:

Lighter wind speeds are expected this weekend as a pronounced area of high pressure builds over the Great Basin. Temperatures will also be near or slightly below seasonal normals on Saturday, with highs in the low-mid 90s. Warmer temperatures will occur by Sunday, with highs near 100 degrees, and will remain similar each day through the middle of the week. Winds will also be generally light during this period.

A weak Pacific low pressure system will develop and move eastward towards the Southwest, and could result in a slight chance for thunderstorms across the higher terrain of east-central Arizona, including southern Gila County on Tuesday and Wednesday afternoons. However, confidence in any rain or lightning potential is still low this far out.

&&

.SPOTTER INFORMATION STATEMENT...

Spotter reports should not be needed.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...None.

CA...Wind Advisory until 5 AM PDT Friday for CAZ562.

Wind Advisory from 2 PM this afternoon to 5 AM PDT Friday for CAZ566.

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DISCUSSION...CB

PREVIOUS DISCUSSION...Nolte

AVIATION...Rogers

FIRE WEATHER...Rogers

┌
420
WWUS75 KPSR 251954
NPWPSR

URGENT - WEATHER MESSAGE
National Weather Service Phoenix AZ
1254 PM MST Thu May 25 2017

CAZ562-261200-
/O.CON.KPSR.WI.Y.0020.000000T0000Z-170526T1200Z/
Imperial County Southwest-
Including the city of Mountain Spring
1254 PM PDT Thu May 25 2017

...WIND ADVISORY REMAINS IN EFFECT UNTIL 5 AM PDT FRIDAY...

- * AFFECTED AREA...Far southwest Imperial County.
- * TIMING...Now through early Friday morning.
- * WINDS...West winds 25 to 35 mph with gusts to 50 mph.
- * IMPACTS...Elevated winds and strong gusts may create dangerous driving conditions for high profile vehicles along Interstate 8 west of El Centro. Locally reduced visibilities due to blowing dust are also possible.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

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

&&

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CAZ566-261200-
/O.CON.KPSR.WI.Y.0020.170525T2100Z-170526T1200Z/
Imperial County West-
Including the cities of Coolidge Springs, Salton City, Winona,
Coyote Wells, Ocotillo, and Plaster City
1254 PM PDT Thu May 25 2017

...WIND ADVISORY REMAINS IN EFFECT UNTIL 5 AM PDT FRIDAY...

- * AFFECTED AREA...Far western Imperial County.
- * TIMING...This afternoon through Friday morning.

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

- * WINDS...West winds 25 to 35 mph with gusts to 50 mph.
- * IMPACTS...Elevated winds and strong gusts may create dangerous driving conditions for high profile vehicles. Locally reduced visibilities due to blowing dust are also possible.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

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

&&

\$\$

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224
WWUS76 KSGX 252026
NPWSGX

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE San Diego CA
126 PM PDT Thu May 25 2017

...Strong winds in parts of the desert through late tonight...

.A low pressure trough and strong onshore flow will continue to produce strong winds in portions of the lower deserts through tonight. Strongest winds will be in the San Gorgonio Pass into the northern Coachella Valley and in the Anza Borrego Desert. Winds will diminish Friday morning.

CAZ062-065-260500-
/O.CON.KSGX.WI.Y.0025.000000T0000Z-170526T1500Z/
San Diego County Deserts-San Gorgonio Pass Near Banning-
INCLUDING THE CITY OF Desert Hot Springs
126 PM PDT Thu May 25 2017

...WIND ADVISORY REMAINS IN EFFECT UNTIL 8 AM PDT FRIDAY...

* WINDS...Westerly 25 to 35 mph with gusts to 55 mph and local gusts to 65 mph.

* TIMING...Through early Friday morning.

* LOCATION...Through and east of the San Gorgonio Pass into the northern Coachella Valley...and parts of the Anza Borrego Desert.

* VISIBILITY...Locally reduced to 2 to 5 miles in blowing dust and sand.

* IMPACTS...Hazardous driving conditions for high profile vehicles. Blowing dust reducing visibilities for motorists.

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.

&&

\$\$

Harrison

109
FXUS66 KSGX 252028
AFDSGX

Area Forecast Discussion
NATIONAL WEATHER SERVICE SAN DIEGO CA
128 PM PDT Thu May 25 2017

.SYNOPSIS...

Cooler weather is in the forecast through Friday as a weak trough of low pressure moves through the region. Low clouds in the coastal areas this afternoon will increase and move into the coastal slopes and passes tonight. Strong and gusty winds will occur in the mountains and deserts through early Friday. Also, the trough may create scattered light showers over and west of the mountains late tonight through early Friday morning. High pressure aloft will rebuild over the West this holiday weekend for warmer weather and a shallower marine layer. Another cooling trend may begin next Tuesday as another trough develops near Southern California.

&&

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

Afternoon visible satellite shows that the valleys have mostly cleared, with stubborn stratus over the coast and Orange county.

Water vapor satellite shows a short-wave trough offshore of Point Conception and a deeper, stronger trough over the Inter-Mountain west. The 12Z Miramar sounding showed significant deepening of the marine layer, with a 10 deg C inversion noted at around 3500 feet MSL. Onshore flow continues to strengthen as well, with onshore pressure gradients from San Diego to Las Vegas up to 16.0 mb, compared to 10.8 mb at this time yesterday. Winds in the mountain ridges, desert slopes and passes are gusting around 30-40 mph, with the highest gusts of 57 mph in the San Geronio Pass area. A Wind Advisory continues for the San Geronio Pass area and the San Diego county deserts through 8 AM Friday, with gusts of 55 mph and locally 65 mph likely. Also, with the strong onshore flow and deep marine layer, typically this results in only partial clearing of marine layer clouds at best during the day. The marine layer will deepen further tonight, up to around 5000 feet MSL. The short-wave moving through the region will likely bring scattered light showers over and west of the mountains tonight into early Friday morning, with scattered amounts of 0.01-0.05 inches. Many places may only see a trace. The colder air mass will result in highs 5-10 degrees below normal today and up to 15 degrees below normal on Friday.

A ridge to the west will start to strengthen and build over the region Saturday through Monday, resulting in increasingly warmer

May 25, 2017 Exceptional Event, Imperial County
days and a shallower marine layer. By Sunday, highs will reach back above normal, and then perhaps 5-10 degrees above normal on Monday. Night and morning stratus will likely only affect the coastal and western valley areas.

A trough will develop over Southern California/Baja Tuesday through Thursday, with a closed low perhaps developing. This may result in another cooling trend and perhaps some deepening of the marine layer.

&&

.AVIATION...

252025Z...Coast/Valleys/Coastal Mountain Slopes...Low clouds with bases generally 2500-3500 feet MSL. Tops near 5000 feet MSL and rising to about 5500 feet MSL by Friday morning. Conditions likely to remain BKN-OVC the remainder of the day from about KCNO-KCRQ-KSDM westward. Coastal mountain slopes mostly obscured below 5500 feet MSL through Fri morning. Risk of all day BKN-OVC low clouds at KSAN for Friday should be less than today so confidence in some afternoon clearing by Friday afternoon at KSAN is moderate. Isolated showers Friday morning around 25/12Z-25/18Z.

Mountains/Deserts...Southwest to west winds with surface gusts 35-45 kt along the desert slopes/foothills and through the passes continuing through Friday morning with moderate to strong up and downdrafts along with pockets of wind shear over and NE/E of the mountains.

&&

.MARINE...

No hazardous marine weather is expected through Monday.

&&

.SKYWARN...

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

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...Wind Advisory until 8 AM PDT Friday FOR San Diego County Deserts-San Gorgonio Pass Near Banning.

PZ...NONE.

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PUBLIC...Harrison

AVIATION/MARINE...Small

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221
FXUS65 KPSR 260306
AFDPSR

Area Forecast Discussion
National Weather Service Phoenix AZ
805 PM MST Thu May 25 2017

.SYNOPSIS...

The high pressure system over the region that produced above normal afternoon temperatures will weaken tonight as several weather systems move into the western states. Although dry weather is forecast, gusty afternoon southwest winds can be expected through Saturday. Also, afternoon temperatures on the lower deserts will cool into the 90s, or below normal temperatures. Dry weather with warmer temperatures are expected beginning Sunday and continuing through next week.

&&

.DISCUSSION...

A series of weather disturbances will continue to flow across Utah and parts of AZ through Saturday, providing a cool down with breezy afternoons. This evenings wind gusts have ranged from 36 mph at Blythe CA, 33 at Imperial CA, and 30 mph at Phoenix. Lower wind speeds are expected Friday and Saturday afternoons, mainly in the 15 to 25 mph range. Otherwise dry weather will continue in the short term. Forecasts look ok through Saturday. No updates necessary.

.PREVIOUS DISCUSSION...237 PM MST...

Early this afternoon, deep troffing continued to dominate the weather pattern across the western CONUS, focused primarily to the north of AZ and over the pacific northwest. Dry southwest flow aloft was present across the area, and 500mb heights had fallen 50-70m over the state over the past 12 hours. IR imagery at 2 pm showed continued lee-enhanced cirrus spreading across southern AZ, emanating from the mountains of far northern Baja, but there was a gradual clearing trend from the northwest as the upper jet bisecting the state shifted slowly to the east/southeast. Temperatures this afternoon were running 6-10 degrees cooler than yesterday, partly a result of cooling aloft translating to the surface, and as such we will see high temperatures this afternoon fall to around 100 over the warmer deserts. Gradients have tightened across far SE CA and Arizona in association with the developing trof and as such we will see breezy to windy conditions this afternoon into the evening, especially over far SE California. Wind advisory will remain in effect thru Friday morning for the favored wind prone areas of far southwest Imperial County.

Operational models as well as GEFS ensemble guidance are in good

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

agreement that the trof to our north will more or less bottom out Friday and give us our coolest day of the week with high temperatures over the deserts lowering into the low to mid 90s. The forecast high of 93 in Phoenix Friday will be 5 degrees below seasonal normal. Dry southwest flow will persist but we should see an end to the thicker lee cirrus and skies look to be generally sunny. Over the weekend, the low to our north will slide eastward and out of the picture as a rather high amplitude ridge moves in behind it and into the western CONUS. There will be a bit of a split in the flow with weak troffing moving into far southern AZ and northern Baja, but overall we will still be looking at a gradual warming trend under continued sunny skies; by Saturday high temps will approach seasonal normals and on Sunday we again will be flirting with the triple digits over the warmer lower deserts. Expect a high near 101 in Phoenix this Sunday. If anything, the weak split in the flow will prevent temperatures from rising evening further above the 100 degree mark.

By late Monday and into early next week, high amplitude wave pattern over the Pacific and western CONUS will begin to be undercut by a strong Pacific jet. A piece of energy becomes cutoff from the upper jet streak/storm branch, developing off-shore northern Baja Tuesday. To our east, high pressure circulation will develop over TX through the 850-700mb layer. Low and mid-level flow will become southerly in nature, drawing moisture northward into the eastern portions of Arizona. Slight chances for afternoon and evening thunderstorms remains for the eastern most portions of southern Gila county through midweek. Breezy south to southwest winds are also expected to reappear Tuesday and Wednesday afternoons. Temperatures will trend slightly cooler with more atmospheric moisture and lower heights in the region again, near late May/early June normals.

&&

.AVIATION...

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

Southeast California/Southwest Arizona including KIPL and KBLH:

A series of dry weather disturbances will continue to move through the region into Friday, providing gusty afternoon west to southwest winds. Through 06z Fri, sct clouds aoa 18 thsd agl. West to southwest winds 10 to 20 knots. From 06z Fri to 19z Fri, sct clds aoa 18 thsd agl. south wind 5 to 10 knots. From 19z Fri to 02z Sat, sct clds aoa 18 thsd agl. Increasing west to southwest wind 15 to 20 knots.

Aviation discussion not updated for amended TAFs.

&&

.FIRE WEATHER...

Sunday through Thursday:

A return to above normal temperatures is likely by Sunday as high

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

pressure builds across the Great Basin. Dry conditions will also persist, though winds will generally be light.

A weak Pacific low pressure system will develop and move eastward towards the Southwest, and could result in a slight chance for thunderstorms across the higher terrain of east-central Arizona, including southern Gila County on Tuesday and Wednesday afternoons. However, confidence in any rain or lightning potential is still low this far out.

&&

.SPOTTER INFORMATION STATEMENT...

Spotter reports should not be needed.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...None.

CA...Wind Advisory until 5 AM PDT Friday for CAZ562-566.

&&

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DISCUSSION...CB/Nolte

AVIATION...Vasquez

FIRE WEATHER...Hirsch/Rogers

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205
FXUS66 KSGX 260436
AFDSGX

Area Forecast Discussion
NATIONAL WEATHER SERVICE SAN DIEGO CA
936 PM PDT Thu May 25 2017

.SYNOPSIS...

Cooler weather is in the forecast through Friday as a weak trough of low pressure moves through the region. Low clouds will lie across the coastal slopes and passes tonight. Strong and gusty winds will occur in the mountains and deserts through early Friday. Also, the trough may create scattered light showers over and west of the mountains late tonight through early Friday morning. High pressure aloft will rebuild over the West this holiday weekend for warmer weather and a shallower marine layer. Another cooling trend may begin next Tuesday as another trough develops near Southern California.

&&

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

...Update...

Marine layer stratus quickly filled back in along the coast, to the valleys and even into the passes and coastal mountain slopes. The 00Z San Diego sounding showed the marine layer depth to about 4,000 FT. It continues windy through eastern portions of the passes and portions of the deserts. Whitewater recorded a gust to 71 mph, but locales across the northern Coachella Valley and in the San Diego desert are predominately in the 30 to 40 mph range.

A few light showers are possible tonight west of the mountains as the marine layer deepens. Hi-res models continue to point to this occurring with amounts of generally just a few hundredths of an inch. See previous discussion below for additional forecast details.

...Previous Discussion (Issued at 128 PM PDT Thu May 25 2017)...

Afternoon visible satellite shows that the valleys have mostly cleared, with stubborn stratus over the coast and Orange county. Water vapor satellite shows a short-wave trough offshore of Point Conception and a deeper, stronger trough over the Inter-Mountain west. The 12Z Miramar sounding showed significant deepening of the marine layer, with a 10 deg C inversion noted at around 3500 feet MSL. Onshore flow continues to strengthen as well, with onshore pressure gradients from San Diego to Las Vegas up to 16.0 mb,

May-25, 2017 Exceptional Event, Imperial County

compared to 10.8 mb at this time yesterday. Winds in the mountain ridges, desert slopes and passes are gusting around 30-40 mph, with the highest gusts of 57 mph in the San Geronio Pass area. A Wind Advisory continues for the San Geronio Pass area and the San Diego county deserts through 8 AM Friday, with gusts of 55 mph and locally 65 mph likely. Also, with the strong onshore flow and deep marine layer, typically this results in only partial clearing of marine layer clouds at best during the day. The marine layer will deepen further tonight, up to around 5000 feet MSL. The short-wave moving through the region will likely bring scattered light showers over and west of the mountains tonight into early Friday morning, with scattered amounts of 0.01-0.05 inches. Many places may only see a trace. The colder air mass will result in highs 5-10 degrees below normal today and up to 15 degrees below normal on Friday.

A ridge to the west will start to strengthen and build over the region Saturday through Monday, resulting in increasingly warmer days and a shallower marine layer. By Sunday, highs will reach back above normal, and then perhaps 5-10 degrees above normal on Monday. Night and morning stratus will likely only affect the coastal and western valley areas.

A trough will develop over Southern California/Baja Tuesday through Thursday, with a closed low perhaps developing. This may result in another cooling trend and perhaps some deepening of the marine layer.

&&

.AVIATION...

260430Z...Coast/Valleys/Coastal Mountain Slopes...Low clouds will gradually fill in all areas from the coastal mountain slopes west past the coast through 06Z with heights gradually lowering from 3500 ft MSL to mostly 2500 ft MSL between 05Z and 08Z. Tops will be 4500-5500 ft MSL. Areas of drizzle/light showers will occur between 08Z and 16Z Fri. Areas of terrain obscurations will occur on the slopes below 5500 ft MSL through 20Z Fri. Gradual clearing will occur 17Z-21Z Fri with most cloud bases above 3000 ft MSL by 17Z. Stratus will likely return Fri night but with lower cloud bases.

Mountains/Deserts...Areas of SW-W winds with surface gusts 35-50 kt along the desert slopes/foothills and through the passes will continue through Friday morning with moderate to strong up and downdrafts along with pockets of wind shear over and NE/E of the mountains.

&&

.MARINE...

No hazardous marine weather is expected through Tuesday.

&&

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

.SKYWARN...

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

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...Wind Advisory until 8 AM PDT Friday FOR San Diego County Deserts-San Gorgonio Pass Near Banning.

PZ...NONE.

&&

\$\$

PUBLIC...Gregoria (Update)/Harrison
AVIATION/MARINE...Maxwell

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988
WWUS76 KSGX 260454
NPWSGX

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE San Diego CA
954 PM PDT Thu May 25 2017

...Strong winds in parts of the desert through Friday morning...

.A low pressure trough and strong onshore flow will continue to produce strong winds in portions of the lower deserts through Friday morning. Strongest winds will be in the San Gorgonio Pass into the northern Coachella Valley and in the Anza Borrego Desert. Winds will diminish Friday morning.

CAZ062-065-261500-
/O.CON.KSGX.WI.Y.0025.000000T0000Z-170526T1500Z/
San Diego County Deserts-San Gorgonio Pass Near Banning-
INCLUDING THE CITY OF Desert Hot Springs
954 PM PDT Thu May 25 2017

...WIND ADVISORY REMAINS IN EFFECT UNTIL 8 AM PDT FRIDAY...

* WINDS...Westerly 25 to 35 mph with gusts to 55 mph and local gusts to 65 mph.

* TIMING...Through early Friday morning.

* LOCATION...Through and east of the San Gorgonio Pass into the northern Coachella Valley...and parts of the Anza Borrego Desert.

* VISIBILITY...Locally reduced to 2 to 5 miles in blowing dust and sand.

* IMPACTS...Hazardous driving conditions for high profile vehicles. Blowing dust reducing visibilities for motorists.

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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\$\$
Gregoria

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956
WWUS75 KPSR 261156
NPWPSR

URGENT - WEATHER MESSAGE
National Weather Service Phoenix AZ
456 AM MST Fri May 26 2017

CAZ562-261300-
/O.EXP.KPSR.WI.Y.0020.000000T0000Z-170526T1200Z/
Imperial County Southwest-
Including the city of Mountain Spring
456 AM PDT Fri May 26 2017

...WIND ADVISORY WILL EXPIRE AT 5 AM PDT EARLY THIS MORNING...

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CAZ566-261300-
/O.EXP.KPSR.WI.Y.0020.000000T0000Z-170526T1200Z/
Imperial County West-
Including the cities of Coolidge Springs, Salton City, Winona,
Coyote Wells, Ocotillo, and Plaster City
456 AM PDT Fri May 26 2017

...WIND ADVISORY WILL EXPIRE AT 5 AM PDT EARLY THIS MORNING...

\$\$

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Facebook

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ASUS66 KSGX 261238
RTPSGX

:SOUTHWESTERN CALIFORNIA TEMPERATURE AND PRECIPITATION SUMMARY
:NATIONAL WEATHER SERVICE SAN DIEGO CA
:530 AM PDT FRI MAY 26 2017
:
:***** UPDATED *****
:
:YESTERDAYS HIGH AND 12 HOUR LOW TEMPERATURES AS OF 5 AM TODAY.
: * DENOTES 24 HOUR HIGH TEMPERATURES AS OF 5 PM YESTERDAY.
: OCCASIONALLY THE HIGH TEMPERATURE MAY HAVE OCCURRED AFTER
: 5 PM THE PREVIOUS DAY.
:
:PRECIPITATION FOR THE PAST 24 HOURS. M DENOTES MISSING.
: T DENOTES TRACE OF PRECIPITATION
:
.BR SGX 0526 P DH01/TAIRZX/DH04/TAIRZP/PPDRZZ/SDIRZZ
:
: ID : STATION ELEV : HIGH / LOW / PCPN / SNOPEP
: FEET INCHES
:
: ...COASTAL AREAS...
:
SDYBL: YORBA LINDA 370 : 72 / 60 / 0.00 /
FUL : FULLERTON AIRPORT 96 : 71 / 62 / 0.00 /
ANAC1: * ANAHEIM 335 : 74 / M / M /
STAC1: SANTA ANA 135 : 68 / 61 / 0.00 /
SDHTB: HUNTINGTON BEACH 5 : 69 / 61 / 0.00 /
SNA : JOHN WAYNE AIRPORT 55 : 67 / 62 / 0.00 /
3L3 : * NEWPORT BEACH 10 : 65 / M / M /
LAGC1: LAGUNA BEACH 35 : 70 / M / 0.00 /
SDDPC: DANA POINT 305 : 63 / 60 / 0.00 /
SDFRH: LAKE FOREST 970 : 67 / 57 / 0.00 /
L34 : OCEANSIDE HARBOR 10 : 64 / 61 / 0.00 /
OKB : OCEANSIDE AIRPORT 28 : 69 / 61 / 0.00 /
SDVIS: VISTA 330 : 67 / 59 / 0.00 /
CRQ : CARLSBAD AIRPORT 328 : 65 / 61 / 0.00 /
SDETS: ENCINITAS 270 : 67 / M / 0.00 /
SOL : SOLANA BEACH 75 : 66 / M / 0.00 /
SDDMB: DEL MAR 10 : 63 / 62 / 0.00 /
NKX : MIRAMAR 477 : 70 / 63 / 0.00 /
MYF : MONTGOMERY FIELD 420 : 67 / 61 / 0.00 /
SAN : SAN DIEGO INT'L AP 15 : 68 / 63 / 0.00 /
L13 : CABRILLO NATL MNMT 364 : M / M / M /
SDNAC: NATIONAL CITY 25 : 70 / 63 / 0.00 /
CVAC1: CHULA VISTA 65 : 68 / 62 / 0.00 /
NRS : IMPERIAL BEACH 23 : 69 / 61 / 0.00 /
SDM : BROWN FIELD 525 : 68 / 60 / 0.00 /
:
: ...INLAND AREAS...
:
:

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

ONT :	ONTARIO	943 :	72 /	58 /	T /
CNO :	CHINO	652 :	73 /	60 /	0.00 /
SDALO:	RANCHO CUCAMONGA	1940 :	70 /	54 /	0.00 /
SDSBO:	SAN BERNARDINO	1050 :	71 /	58 /	0.00 /
AJO :	CORONA	531 :	70 /	59 /	0.00 /
RAL :	RIVERSIDE AIRPORT	818 :	72 /	58 /	0.00 /
UCRC1:	RIVERSIDE	986 :	73 /	63 /	0.00 /
RIV :	RIVERSIDE MARCH	1542 :	73 /	56 /	0.00 /
BUO :	BEAUMONT	2680 :	71 /	51 /	0.00 /
SDLEL:	LAKE ELSINORE	1275 :	79 /	57 /	0.00 /
SDHET:	HEMET	2050 :	60 /	53 /	0.00 /
SDTEC:	TEMECULA	1020 :	70 /	57 /	0.00 /
SDFBK:	FALLBROOK	698 :	69 /	59 /	0.00 /
VCFC1:	VALLEY CENTER	1312 :	81 /	M /	0.00 /
SDSMP:	SAN MARCOS	630 :	67 /	59 /	0.00 /
ESCC1:	ESCONDIDO	645 :	73 /	60 /	0.00 /
PSQC1:	SAN PASQUAL VALLEY	255 :	73 /	58 /	0.00 /
RNM :	RAMONA AIRPORT	1393 :	70 /	56 /	0.00 /
SGX :	RANCHO BERNARDO	690 :	68 /	59 /	0.00 /
SDPOY:	POWAY	597 :	71 /	60 /	0.00 /
ALPC1:	ALPINE	1695 :	70 /	55 /	0.00 /
SDLAM:	LA MESA	500 :	67 /	59 /	0.00 /
SDSNL:	SANTEE	435 :	71 /	61 /	0.00 /
ELJC1:	EL CAJON	405 :	70 /	61 /	0.00 /
SDRSC:	RANCHO SAN DIEGO	400 :	68 /	60 /	0.00 /
LMGC1:	LEMON GROVE	427 :	66 /	M /	0.00 /
:					
:	...MOUNTAIN AREAS...				
:					
ECSC1:	EL CARISO	2730 :	71 /	48 /	0.00 /
SDWRT:	WRIGHTWOOD	5980 :	72 /	59 /	0.00 /
SDARN:	LAKE ARROWHEAD	5180 :	67 /	41 /	0.00 /
BBLC1:	BIG BEAR LAKE	6768 :	71 /	40 /	0.00 /
SDBDN:	BALDWIN LAKE	6770 :	71 /	37 /	0.00 /
SDAOK:	ANGELUS OAKS	5800 :	66 /	34 /	0.00 /
SDPCV:	PINE COVE	6299 :	68 /	46 /	0.00 /
IDYC1:	IDYLLWILD	5380 :	70 /	37 /	0.00 /
NZAC1:	ANZA	3939 :	69 /	46 /	0.00 /
PYNC1:	PINYON PINES	4060 :	81 /	60 /	0.00 /
PLRC1:	* PALOMAR MOUNTAIN	5550 :	M /	M /	M /
JULC1:	JULIAN	4240 :	61 /	42 /	0.00 /
MLNC1:	* MOUNT LAGUNA	5920 :	79 /	M /	M /
CPMC1:	* CAMPO COOP	2615 :	71 /	M /	M /
:					
:	...DESERT AREAS...				
:					
HESC1:	HESPERIA	3055 :	76 /	50 /	0.00 /
APLC1:	APPLE VALLEY	2780 :	75 /	M /	M /
PSP :	PALM SPRINGS	425 :	93 /	63 /	0.00 /
IDOC1:	INDIO	-21 :	93 /	66 /	0.00 /
TRM :	THERMAL	-117 :	98 /	66 /	0.00 /
BROC1:	BORREGO SPRINGS	805 :	97 /	M /	M /
OCWC1:	OCOTILLO WELLS	390 :	90 /	M /	0.00 /
TYEC1:	JOSHUA TREE N.P.	1975 :	98 /	62 /	0.00 /

May 25, 2017 Exceptional Event, Imperial County**Appendix A**

BLH	:	BLYTHE	397	:	102	/	67	/	0.00	/
IPL	:	IMPERIAL	-56	:	99	/	63	/	0.02	/
.END										

THESE DATA ARE PRELIMINARY AND HAVE NOT UNDERGONE FINAL QUALITY CONTROL BY THE NATIONAL CLIMATIC DATA CENTER (NCDC). THEREFORE, THESE DATA ARE SUBJECT TO REVISION. FINAL AND CERTIFIED CLIMATE DATA CAN BE ACCESSED AT WWW.NCDC.NOAA.GOV.

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URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE San Diego CA
756 AM PDT Fri May 26 2017

...WINDS DECREASING THIS MORNING...

CAZ062-065-261600-
/O.EXP.KSGX.WI.Y.0025.000000T0000Z-170526T1500Z/
San Diego County Deserts-San Gorgonio Pass Near Banning-
INCLUDING THE CITY OF Desert Hot Springs
756 AM PDT Fri May 26 2017

...WIND ADVISORY WILL EXPIRE AT 8 AM PDT THIS MORNING...

WINDS HAVE DECREASED THIS MORNING AND THE WIND ADVISORY WILL
EXPIRE. BREEZY BUT NOT HAZARDOUS CONDITIONS WILL CONTINUE
TODAY.

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