

TYPE	DATE	TIME	AGENCY	DESCRIPTION	PAGE	
Area Forecast Discussion	10/3/2018	0247	PDT	San Diego	A bigger trough develops this weekend and drops into Southern California Sunday. This will boost winds in the mountains and deserts where top gusts on Saturday could exceed 50 mph.	40
Area Forecast Discussion	10/4/2018	0239	PDT	San Diego	Fair weather will follow before a colder, deeper low pressure system drops into the West. That will bring cooler weather, some strong winds to the mountains and deserts and a small chance of showers late Saturday into early Monday.	41
Area Forecast Discussion	10/5/2018	0339	MST	Phoenix	The forecast over the next week or so is quite interesting as we have an unseasonably strong and cold Pacific system move in late in the weekend and then possibly another tropical system (Sergio) to deal with late next week.	42
Area Forecast Discussion	10/5/2018	0957	PDT	San Diego	The trough over the Pac NW will dive southeast through the weekend, with a closed low developing over AZ by late Sunday. A tightening pressure gradient will strengthen onshore flow Saturday, generating westerly wind gusts of 40-50 mph and local gusts to 55 mph Saturday afternoon through Saturday night over the desert mountain slopes and into adjacent desert areas.	45
Urgent Weather Message	10/5/2018	1333	MST	Phoenix	Wind Advisory for Imperial County southwest	46
Area Forecast Discussion	10/5/2018	1430	MST	Phoenix	As far as the forecast goes for tomorrow onward, everything still remains on track for this weekends weather system. The only major change made was issuing a Wind Advisory for zones 560 and 562 in southeast California. This Wind Advisory will be in effect from 8 pm PST Saturday evening to 8 am PST Sunday morning.	47
Area Forecast Discussion	10/5/2018	2015	PDT	San Diego	This weekend as a cold trough drops into the Great Basin, bringing gusty westerly winds over our mountains and deserts, and deepening the marine layer. Some light rain will be possible along and west of the mountains Saturday night into Sunday and it will be a bit cooler. Next week will continue partly cloudy, but slightly warmer weather during the day with night/morning low clouds west of the mountains	50
Area Forecast Discussion	10/5/2018	2122	MST	Phoenix	As far as the forecast goes for tomorrow onward, everything still remains on track for this weekends weather system. The only major change made was issuing a Wind Advisory for zones 560 and 562 in southeast California. This Wind Advisory will be in effect from 8 pm PST Saturday evening to 8 am PST Sunday morning.	53
Urgent Weather Message	10/6/2018	0139	MST	Phoenix	Wind Advisory for Imperial County southwest & Joshua Tree National Park West	57
Urgent Weather Message	10/6/2018	0256	PDT	San Diego	Wind Advisory for the San Diego County deserts, Coachella Valley, and Borrego Springs	58

Area Forecast Discussion	10/6/2018	0306	MST	Phoenix	The aforementioned upper level trough will continue to dive southward towards our CWA this afternoon and tighten surface pressure gradients as it does so. This should bring a noticeable uptick in winds in SE California this afternoon with gusts 20-30 mph over much of the area. Even stronger winds are forecast over elevated terrain tonight as the trough deepens. This has prompted a wind advisory over Joshua Tree National Park and far southwest Imperial County where gusts could approach 45 mph.	59
Area Forecast Discussion	10/6/2018	0352	PDT	San Diego	Winds will really pick up with this system. First we will see the westerly winds pick up over the Mojave Desert this afternoon with some patchy dust/sand concerns there this afternoon. Winds are not quite likely to be strong enough to support a wind advisory in our portion of the Mojave Desert. Stronger westerly winds will get into the lower deserts inc. the Coachella Valley and San Gorgonio Pass later this evening when a wind advisory takes effect, and blowing dust/sand could cause areas of reduced visibility in the lower deserts. Winds could gust to 50 mph at times in these locations through Sunday morning. Wind Advisory for the San Diego County deserts, Coachella Valley, and Borrego Springs	62
Area Forecast Discussion	10/6/2018	0449	MST	Phoenix	The aforementioned upper level trough will continue to dive southward towards our CWA this afternoon and tighten surface pressure gradients as it does so. This should bring a noticeable uptick in winds in SE California this afternoon with gusts 20-30 mph over much of the area. Even stronger winds are forecast over elevated terrain tonight as the trough deepens. This has prompted a wind advisory over Joshua Tree National Park and far southwest Imperial County where gusts could approach 45 mph.	65
Area Forecast Discussion	10/6/2018	1005	PDT	San Diego	The trough will strengthen onshore flow throughout the day, and create breezy westerly wind gusts of 40-50 mph along the desert mountain slopes into nearby deserts. A Wind Advisory remains in effect from 5 pm this afternoon through 8 am Sunday for areas of the Coachella Valley, San Gorgonio Pass and the Lower Deserts	68
Urgent Weather Message	10/6/2018	1313	PDT	San Diego	Wind Advisory for the San Diego County deserts, Coachella Valley, and Borrego Springs	71
Area Forecast Discussion	10/6/2018	1345	PDT	San Diego	The trough will strengthen onshore flow throughout the day, and create breezy westerly wind gusts of 40-50 mph along the desert mountain slopes into nearby deserts. A Wind Advisory remains in effect from 5 PM this afternoon through 8 AM Sunday for areas of the Coachella Valley, San Gorgonio Pass and the Lower Deserts	72
Urgent Weather Message	10/6/2018	1406	MST	Phoenix	Wind Advisory for Imperial County southwest & Joshua Tree National Park West	75

Area Forecast Discussion	10/6/2018	1535	MST	Phoenix	Satellite imagery early this afternoon shows an upper trough digging southward over the Interior West. The imagery also shows lee cirrus, associated with the jet nosing into the deserts, overspreading the forecast area. Surface obs suggest a front is located roughly from southeast UT into the Mohave Desert.	76
Area Forecast Discussion	10/6/2018	2037	PDT	San Diego	At 8 PM PDT...satellite imagery showed a cold trough digging sharply over SE CA. The cold air and strong vorticity associated with the trough had fired off considerable thunderstorm activity during the heat of the afternoon over NE San Bernardino County. Outflow from this activity was just entering our high desert areas and may create enough upslope onto the San Bernardinos to fire off some showers overnight. This is depicted on several of the latest hires models, but amounts are very light.	79
Public Information Statement	10/7/2018	0525	PDT	San Diego	Regional Wind Speeds from San Diego NWS	82
Urgent Weather Message	10/7/2018	0537	PDT	San Diego	Wind Advisory for San Diego County deserts cancelled	85



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San Diego, CA

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FXUS66 KSGX 030947
AFDSGX

[Area Forecast Discussion](#)

[National Weather Service](#) San Diego CA
247 AM PDT Wed Oct 3 2018

.SYNOPSIS...

A **low pressure system** will move through Southern California today, bringing increasing showers today into Thursday morning. There is a slight chance of thunderstorms late today. The region remains in cool northwest **flow** aloft through next Tuesday. A **trough** on Saturday night and Sunday will bring a slight chance of showers, along with brisk winds in the mountains and deserts.

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

Now with the tropical stuff in the rear view mirror, we can replace our tropical thinking with extra-tropical jet-driven thinking more typical of fall. A **cutoff low pressure system** is slowly moving into central and Southern California today. A few sprinkles or light showers are already passing through L.A. County. Sprinkles or very light showers will be gradually increasing during the day from west to east, but the best chance of showers appears to be this evening and overnight. There is also a small chance of thunderstorms between about 4 to 8 pm, mainly north of SD County where it will be more unstable. Rainfall will not be impressive. A few mountain spots could harvest a half inch or more, but most of the lowlands will come in between a tenth and a quarter inch, or less than a tenth inch in the desert. Winds will pick up in the mountains and deserts during afternoons through the nights through Thursday. Gusts will be mostly in the 30 to 40 mph range. Gone are those warm and **muggy** tropical days. The effective **sea breeze** and a cooling trend that got started Tuesday will continue today and Thursday. Highs in the 70s will be common at lower elevations and the high desert, with mostly 80s in the low desert. Mountains top out in the 50s and 60s. Welcome to fall. The showers end fairly early Thursday, but skies won't clear fully. The northwest **flow** behind the **trough** will keep our daytime temperatures below average for the coming week. A weak **shortwave** moves through Friday morning with little impact except maybe to help rebuild the disrupted marine layer. A bigger **trough** develops this weekend and drops into Southern California Sunday. This will boost winds in the mountains and deserts where top gusts on Saturday could exceed 50 mph. We are on the dry side of this trough, but with just enough trajectory over the water we have a slight chance of showers late Saturday into Sunday. Obviously, models are not in super agreement on the trajectory of the low, hence the small chances represent a blend of solutions. The large scale pattern across the country featuring a western **trough** and an eastern **ridge** holds at least into the middle of next week, keeping our weather on the cool side of average.

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.AVIATION...

030930Z...Coasts/Valleys/Mountains...SCT-BKN clouds with bases 4000-6000 ft **MSL** will obscure coastal mountain slopes through Thu morning. A weak **front** will bring **SHRA** after 18Z north of San Diego County, and after 20Z in San Diego County. ISO **TSRA** also possible 18-08Z. **CIGS** lowering to 1500-2500 ft **MSL** with **SHRA**, possibly as low as



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FXUS66 KSGX 040939
AFDSGX

Area Forecast Discussion

National Weather Service San Diego CA
239 AM PDT Thu Oct 4 2018

.SYNOPSIS...

Showers will end this morning as a **trough** of low pressure moves east out of the region. Fair weather will follow before a colder, deeper **low pressure system** drops into the West. That will bring cooler weather, some strong winds to the mountains and deserts and a small chance of showers late Saturday into early Monday. A cool but fair weather pattern is projected for next week.

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

The showers finally arrived. Most places got hit with a little something since last evening, and a few got heavy brief showers. Amounts have been less than a tenth inch, but the heavier showers dropped over a quarter inch. A somewhat organized band of showers is slowly tracking east and for the moment no additional showers are forming behind it over the ocean. The moist and conditionally **unstable air** tells us the end of the showers won't be so clean, so we expect isolated showers to continue, but gradually decrease through the morning. A brisk westerly **flow** will continue for the coming week under a long wave **trough** pattern over the western U.S. That will keep our weather on the cool side. On Saturday a deep **trough** digs southward across California. It will certainly boost winds in the mountains and the deserts especially late Saturday. Less certain is the question of showers. The Euro model still has the **trough** wiggling a little more over the ocean than the more inland **GFS** solution does. And that's enough to warrant a small chance of showers Sunday and Sunday night. Skies will be partly cloudy, but a touch of **offshore flow** should make Friday sunnier. Otherwise, the **trough** pattern will keep skies **partly cloudy** at least from the mountains westward every day for a while. As the Sunday **trough** slowly moves east Monday and Tuesday, we could get some more offshore flow, but right now it doesn't look too strong. The **marine inversion** and layer will be disrupted. The cool air aloft combined with occasional **offshore flow** will show the marine layer it's fall after all. Days will be cooler than average for the foreseeable future.

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.AVIATION...

040930Z...Coast/Valleys/Mountains...ISO-SCT showers will continue through the morning, then taper off during the afternoon. SCT-BKN clouds with bases 4000-6000 ft **MSL** will continue through Friday morning, occasionally lowering to 1500-2500 ft **MSL** with **SHRA**. **Vis** locally reduced to 3-6 SM in heavier showers. Coastal mountain slopes will remain obscured in clouds/**fog**/precip through Friday morning.

Deserts...West-northwest winds will continue to lower this morning, then strengthen again around 05/00Z. Surface gusts will increase to 20-30 kt on the desert mountain slopes, through the passes, and locally into deserts. Winds will weaken early Friday morning. Otherwise a few **high clouds** and unrestricted **vis** through Friday morning.

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FXUS65 KPSR 051039

AFDPSR

Area Forecast Discussion

National Weather Service Phoenix AZ

339 AM MST Fri Oct 5 2018

.SYNOPSIS...

Drier air will temporarily be in place through early Saturday, but another cool Pacific weather system will then dip into the region beginning Saturday night. This system will bring good chances for showers and thunderstorms mainly over the central and eastern portions of Arizona. It will also bring even cooler temperatures with afternoon highs struggling to get into the 80s in many locations on Sunday and Monday and overnight lows in the 50s. Temperatures will remain below normal for all of next week with rain chances returning late next week.

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.DISCUSSION...

The forecast over the next week or so is quite interesting as we have an unseasonably strong and cold Pacific system move in late in the weekend and then possibly another tropical system (Sergio) to deal with late next week. Quiet conditions will reign at least for today and likely much of Saturday with mostly clear skies and highs reaching into the middle to upper 80s.

The next weather system is beginning to take shape off the Pacific Northwest coast and is forecast to dive south southeast through the Interior West later today and Saturday. By Saturday evening, models show the main shortwave trough and the nose of a strong upper level jet max already reaching into northwest Arizona and southern California. The trough will undergo rapid intensification Saturday night into Sunday as the jet max dives into the base of the trough. Models continue to show this unseasonably strong and cold trough will provide ample dynamics aloft along with bringing a weak surface cold front through the region.

Moisture will be sufficient given the strong dynamics of the system, but we are not anticipating a widespread heavy rainfall event. The latest PoPs have changed very little from the previous forecast with the best rain chances across the central and eastern Arizona high terrain and northern portions of the south-central Arizona deserts. Showers and thunderstorms should initially develop sometime Saturday evening well north and northwest of Phoenix with the bulk of the activity remaining north of the CWA until well after midnight Saturday night. As the cold front dips southeast during the overnight before stalling out over central Arizona Sunday, we should see showers and thunderstorms

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

develop across La Paz and Maricopa County by sunrise Sunday morning. Strong low and mid level southerly upslope flow will combine with the upper level support to bring showers and possibly thunderstorms through the rest of Sunday morning across Phoenix and areas to the north. Showers and thunderstorms should mostly shift east of the Phoenix area Sunday afternoon, but persist across the higher terrain of eastern and central Arizona into Sunday night.

The ingredients should be present for some strong to severe thunderstorms mainly Sunday morning with upwards of 50kts of 0-6km shear. Since moisture levels will not be all that high, CAPE will be the limiting factor, but models are showing modest CAPE values of 500 J/kg to possibly as high as 1000. If storms are able to become organized enough, damaging winds and even some modest hail will be possible. Storms should also produce locally heavy rainfall and given the wet early part of the week, the flood threat will also be there for areas north of Phoenix. Forecast rain amounts for Saturday night and Sunday range from very little southwest of Phoenix to as much as one inch across the high terrain north and east of Phoenix.

The deep upper level low will slowly shift eastward on Monday, but we will continue to see chances of showers and thunderstorms across the eastern half of Arizona. Activity will mainly shift east of Phoenix on Monday following the cold core aloft as it begins to shift into New Mexico. Steep mid level lapse rates across the eastern Arizona high terrain should bring another round of thunderstorms Monday afternoon assuming there is enough sunshine to destabilize the low levels.

The already below normal temperatures will fall further starting Sunday with highs only the 70s across much of southern Arizona to as high as the lower 80s across southeast California. Overnight lows Sunday night should be the lowest so far this season with widespread readings in the upper 50s to lower 60s. Highs Monday should be similar to Sunday's while some drying late Monday will push lows Monday night in the middle 50s. The trough will finally lift well northeast by Tuesday with rapidly building heights aloft, but highs will only recover a few degrees Tuesday followed by a bit more for Wednesday.

Attention then turns to what could be another significant tropical event for portions of the Desert Southwest late next week. Hurricane Sergio, which is currently slowly drifting westward well southwest of the tip of Baja, is forecast to make an abrupt turn to the northeast on Monday and then the remnants might end up making their way into the Desert Southwest late next week. Since it is nearly a week away, there is still a decent amount of uncertainty in the track, but the bulk of the GFS ensemble members and even the European show the track through southeast Arizona. Given the current forecast track, we have increased PoPs a good amount for next Thursday with the highest PoPs focused to the southeast and east of Phoenix. We should get a better picture over

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

the next few days on the eventual track and the potential heavy rainfall amounts that may accompany the storm system.

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.AVIATION...

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

A dry airmass over the region to keep cloud cover down in the FEW-SCT range, mainly aob 7k feet through the TAF period. Winds to remain on the light side (mostly aob 8 kts) and follow typical diurnal trends, but with winds becoming westerly a little earlier than usual on Friday. No aviation impacts are expected.

Southeast California/Southwest Arizona including KIPL and KBLH:

No aviation impacts are expected as drier air continues to advect into the region with clear skies. Winds will generally remain out of a westerly to northwesterly direction through the TAF period at both KIPL and KBLH. Wind speed mainly remaining aob below 15 knots.

Aviation Discussion not updated for amended TAFs.

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.FIRE WEATHER...

Sunday through Thursday:

Gusty westerly winds are expected on Sunday as a strong low pressure system moves through southeast California into Arizona. However, this will coincide with a significant cool down as temperatures fall to about 15 degrees below seasonal normals. Wetting rains are expected across south central Arizona as scattered to widespread showers with embedded thunderstorms move through the region. Rain chances decrease further west towards the Colorado River Valley and southeast California where the coverage of showers and thunderstorms will be more isolated. temperatures will likely stay cool with at least slight chances of rainfall continuing. Rain chances will linger into Monday before we dry out for the middle of next week as temperatures remain below normal.

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.SPOTTER INFORMATION STATEMENT...

Spotters should follow standard reporting procedures.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...None.

CA...None.

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[Area Forecast Discussion](#)...UPDATED
 National Weather Service San Diego CA
 957 AM PDT Fri Oct 5 2018

.SYNOPSIS...

Partly cloudy and cool weather is forecast this coming week as the West remains under low pressure aloft. This weekend, a deeper **trough** of low pressure will bring more clouds, strong winds to the mountains and deserts, and showers to some areas. Next week will continue partly cloudy, but slightly warmer.

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

At 9 AM PDT, water vapor satellite imagery displayed a **shortwave trough** moving across southern CA, and another **trough** moving into the Pacific Northwest. The **shortwave** developed a few light showers overnight with areas of San Diego County receiving a few hundredths of precipitation, and Pacific Beach and Del Mar receiving between 0.1-0.2". An additional light shower or two may develop over southern San Diego County this morning before conditions dry out this afternoon. Visible satellite showed partly cloudy skies over inland Orange County, the Inland Empire and the Lower Deserts, with **mostly cloudy** skies over and west of the mountains in San Diego County. High temperatures today will be around 5-15 degrees F below normal. **Low clouds** will develop over the coast and valleys tonight.

The **trough** over the **Pac NW** will dive southeast through the weekend, with a **closed low** developing over AZ by late Sunday. A tightening pressure **gradient** will strengthen **onshore flow** Saturday, generating westerly wind gusts of 40-50 mph and local gusts to 55 mph Saturday afternoon through Saturday night over the desert mountain slopes and into adjacent desert areas. A wave moving across the area Sunday from the associated low to the east will generate areas of light showers, mostly over and west of the mountains. Current high-resolution models are showing most activity over and west of the mountains in San Diego County Sunday morning, with heavier showers developing over the mountains in the afternoon and early evening. **Precipitation** amounts are mostly expected to be a quarter of an inch or less, with a dusting of snow possible above 8000 ft. Northerly winds quickly develop Sunday morning from the passage of the trough, with strongest gusts of 35-45 mph along the southwest-facing slopes of the San Bernardino County mountains through Monday morning. Winds might be high enough to warrant a **wind advisory** for portions of the mountains and deserts Saturday night depending on how 12Z model runs look.

Northwest **flow** aloft will continue early next week, then a **trough** develops along the CA coast mid to late next week. This will be an interesting feature to **watch** since models show the remnants and **moisture** from **Hurricane Sergio** moving across central Baja and

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WWUS75 KPSR 052033

NPWPSR

URGENT - WEATHER MESSAGE

National Weather Service Phoenix AZ

133 PM MST Fri Oct 5 2018

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Joshua Tree NP West-Imperial County Southwest-

Including the cities of Cottonwood Visitor and Lost Horse-Keys
Village

133 PM PDT Fri Oct 5 2018

...WIND ADVISORY IN EFFECT FROM 8 PM SATURDAY TO 8 AM PDT
SUNDAY...

The National Weather Service in Phoenix has issued a Wind
Advisory, which is in effect from 8 PM Saturday to 8 AM PDT
Sunday.

* WINDS...Northwest 20 to 30 mph with gusts up to 55 mph.

* TIMING...8 pm Saturday to 8 am PDT Sunday.

* IMPACTS...Strong winds may blow down limbs, trees, and power
lines. Briefly lowered visibilities to well under a mile at
times in blowing dust or blowing sand.

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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College of Ag

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FXUS65 KPSR 052130

AFDPSR

Area Forecast Discussion

National Weather Service Phoenix AZ

230 PM MST Fri Oct 5 2018

.SYNOPSIS...

Drier air will temporarily be in place through early in the day tomorrow before another cool Pacific weather system dips into the region tomorrow night. This system will bring good chances for showers and thunderstorms mainly over the central and eastern portions of Arizona. It will also bring even cooler temperatures with afternoon highs struggling to get into the 80s in many locations on Sunday and Monday and overnight lows in the 50s. Temperatures will remain below normal for all of next week with rain chances returning late next week.

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.DISCUSSION...Dry conditions will prevail again today as a dry weak trough pushes across the region. Temperatures will continue to be a few degrees below normal with highs west of the Colorado River Valley in the upper 80s and highs east of the Colorado River Valley in the low to mid 80s. With clear skies and light winds forecast tonight, expect temperatures to drop down into the low to mid 60s this evening.

As far as the forecast goes for tomorrow onward, everything still remains on track for this weekends weather system. The only major change made was issuing a Wind Advisory for zones 560 and 562 in southeast California. This Wind Advisory will be in effect from 8 pm PST Saturday evening to 8 am PST Sunday morning.

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.PREVIOUS DISCUSSION...The next weather system is beginning to take shape off the Pacific Northwest coast and is forecast to dive south southeast through the Interior West later today and Saturday. By Saturday evening, models show the main shortwave trough and the nose of a strong upper level jet max already reaching into northwest Arizona and southern California. The trough will undergo rapid intensification Saturday night into Sunday as the jet max dives into the base of the trough. Models continue to show this unseasonably strong and cold trough will provide ample dynamics aloft along with bringing a weak surface cold front through the region.

Moisture will be sufficient given the strong dynamics of the system, but we are not anticipating a widespread heavy rainfall

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

event. The latest Pops have changed very little from the previous forecast with the best rain chances across the central and eastern Arizona high terrain and northern portions of the south-central Arizona deserts. Showers and thunderstorms should initially develop sometime Saturday evening well north and northwest of Phoenix with the bulk of the activity remaining north of the CWA until well after midnight Saturday night. As the cold front dips southeast during the overnight before stalling out over central Arizona Sunday, we should see showers and thunderstorms develop across La Paz and Maricopa County by sunrise Sunday morning. Strong low and mid level southerly upslope flow will combine with the upper level support to bring showers and possibly thunderstorms through the rest of Sunday morning across Phoenix and areas to the north. Showers and thunderstorms should mostly shift east of the Phoenix area Sunday afternoon, but persist across the higher terrain of eastern and central Arizona into Sunday night.

The ingredients should be present for some strong to severe thunderstorms mainly Sunday morning with upwards of 50kts of 0-6km shear. Since moisture levels will not be all that high, CAPE will be the limiting factor, but models are showing modest CAPE values of 500 J/kg to possibly as high as 1000. If storms are able to become organized enough, damaging winds and even some modest hail will be possible. Storms should also produce locally heavy rainfall and given the wet early part of the week, the flood threat will also be there for areas north of Phoenix. Forecast rain amounts for Saturday night and Sunday range from very little southwest of Phoenix to as much as one inch across the high terrain north and east of Phoenix.

The deep upper level low will slowly shift eastward on Monday, but we will continue to see chances of showers and thunderstorms across the eastern half of Arizona. Activity will mainly shift east of Phoenix on Monday following the cold core aloft as it begins to shift into New Mexico. Steep mid level lapse rates across the eastern Arizona high terrain should bring another round of thunderstorms Monday afternoon assuming there is enough sunshine to destabilize the low levels.

The already below normal temperatures will fall further starting Sunday with highs only the 70s across much of southern Arizona to as high as the lower 80s across southeast California. Overnight lows Sunday night should be the lowest so far this season with widespread readings in the upper 50s to lower 60s. Highs Monday should be similar to Sunday's while some drying late Monday will push lows Monday night in the middle 50s. The trough will finally lift well northeast by Tuesday with rapidly building heights aloft, but highs will only recover a few degrees Tuesday followed by a bit more for Wednesday.

Attention then turns to what could be another significant tropical event for portions of the Desert Southwest late next week. Hurricane Sergio, which is currently slowly drifting westward

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

well southwest of the tip of Baja, is forecast to make an abrupt turn to the northeast on Monday and then the remnants might end up making their way into the Desert Southwest late next week. Since it is nearly a week away, there is still a decent amount of uncertainty in the track, but the bulk of the GFS ensemble members and even the European show the track through southeast Arizona. Given the current forecast track, we have increased PoPs a good amount for next Thursday with the highest PoPs focused to the southeast and east of Phoenix. We should get a better picture over the next few days on the eventual track and the potential heavy rainfall amounts that may accompany the storm system.

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.AVIATION...

South-Central Arizona including KPHX, KIWA, and KSDL:
Remnant low level moisture over the region will continue to bring FEW to SCT clouds around 8 kft through early this afternoon. Winds will follow the typical diurnal directions while speeds generally remain at or below 10 kts. High clouds will increase by tomorrow afternoon with a repeat of scattered clouds with bases near 7 kft. Some gusts to 15 kt will also be possible by late Saturday afternoon out of the west.

Southeast California/Southwest Arizona including KIPL and KBLH:
Winds will favor the west at KIPL and north at KBLH today and remain below 12 kt, with mostly clear skies. High clouds will increase late Saturday morning. Westerly winds will also become dominant late Saturday morning, with a few gusts above 10 kts possible by the end of the TAF period. Otherwise, no aviation concerns.

Aviation Discussion not updated for amended TAFs.

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.FIRE WEATHER...

Monday through Friday:

Overall, minimal fire weather concerns through the period. Residual moisture will keep thunderstorm chances mainly over the higher terrain north and east of Phoenix on Monday. Dry conditons will then return Tuesday and Wednesday, before moisture increases again on Thursday. Along and west of the Colorado River, minimum humidities will be below 30 percent, with the exception of Thursday where minimum humidity values will be closer to the 30 to 40 percent range. East of the Colorado River, minimum humidities will range from 25 to 55 percent on Monday, lowering a bit on Tuesday and Wednesday, before another surge of moisture occurs on Thursday. Winds will generally remain light, outside of a few afternoon breezes.

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FXUS66 KSGX 060316

AFDSGX

Area Forecast Discussion

National Weather Service San Diego CA

815 PM PDT Fri Oct 5 2018

.SYNOPSIS...

Elevated to high surf conditions will prevail at the beaches This weekend as a cold trough drops into the Great Basin, bringing gusty westerly winds over our mountains and deserts, and deepening the marine layer. Some light rain will be possible along and west of the mountains Saturday night into Sunday and it will be a bit cooler. Next week will continue partly cloudy, but slightly warmer weather during the day with night/morning low clouds west of the mountains.

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

At 8 PM PDT...Some marine stratus was beginning to form off the Coast of southern San Diego County, and a few patchy high clouds were seen dropping from north to south across the SoCal. The 00Z Miramar sounding had a weak marine inversion near 2500 FT MSL. Winds were mostly light with peak gust reports under 25 MPH.

The zone forecasts were updated to include the High Surf Advisory that was issued for Orange County, otherwise no forecast changes this evening.

The trough over the Pac NW will dive southeast through the weekend, with a closed low developing over AZ by late Sunday. A tightening pressure gradient will strengthen onshore flow Saturday, generating westerly wind gusts of 40-50 mph Saturday evening through early Sunday morning over the desert mountain slopes and into adjacent desert areas. A Wind Advisory has been issued for portions of the Lower Deserts, Coachella Valley and the San Geronio Pass from 8 PM Saturday through 8 AM Sunday.

A wave moving across the area Sunday from the associated low to the east will generate areas of light showers, mostly over and west of the mountains. Current high-resolution models are showing most activity over and west of the mountains in San Diego County Sunday morning, with heavier showers developing over the mountains in the afternoon and early evening. A few showers may develop over the High Desert through the period, as well. Precipitation amounts are mostly expected to be a quarter of an inch or less, with a dusting of snow possible above 8000 ft. Northerly winds quickly develop Sunday morning from the passage of the trough, with strongest gusts of 35-45 mph along the southwest-facing

October 6, 2018 Exceptional Event, Imperial County -**Appendix A**

slopes of the San Bernardino County mountains through Monday morning.

Northwest flow aloft will continue early next week, then a trough develops along the CA coast mid to late next week. This will be an interesting feature to watch since models show the remnants and moisture from Hurricane Sergio moving across central Baja and into AZ/NM next Thursday and Friday. Depending on how the trough develops, we could see an increase in moisture over our region, similar to Rosa earlier this week. The trough moving across the region late next week could tap into lingering Sergio moisture, so this will be something we will keep a close eye on.

High temperatures will mostly remain below normal through next week, with the coldest day being on Sunday. The marine layer will remain deep through the period, with night/morning low clouds developing each night towards the mountains.

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.AVIATION...

060300Z...Coast/Valleys/Mountains...Low clouds will redevelop after 04Z tonight at the coast and then move into the inland valleys. Bases will be around 1500 ft MSL and tops to 2000 ft MSL. Local vis 3-5 in areas of the Inland Empire between 12Z and 16Z Saturday. Clouds scatter out tomorrow in the valleys after 17Z and 19-20Z at the coast. SCT-BKN clouds will begin to redevelop after 00Z Sunday.

Deserts... A few high clouds and unrestricted vis through Saturday. Gusty winds will develop Saturday evening in the Coachella Valley and Lower Deserts. Sfc wind gusts will increase to 35-45 kts, weakening after 18Z Sunday. MOD-STG UDDFS and LLWS are possible through Sunday morning.

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.MARINE...

Another weak cold front will bring gusty west-northwest winds to the coastal waters for a brief time Saturday evening with gusts to around 20 kt near San Clemente Island. There is a slight chance of showers Saturday night into Sunday afternoon.

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.BEACHES...

A High Surf Advisory has been issued for Orange County through Sunday afternoon with surf 6-8 feet with sets to 10 feet. A Beach Hazards Statement is in effect for San Diego County through Sunday afternoon with surf 4-6 feet with sets up to 7. South swells from Hurricane Sergio will peak Saturday then slowly fade on Sunday. Swell and surf will likely remain elevated through next week as Sergio curves to the north and east.

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

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.FIRE WEATHER...

Our first round of seasonal Santa Anas will develop Sunday as a trough moves across the region. Northerly wind gusts of 35-45 mph are possible along south-facing slopes of the San Bernardino County mountains on Sunday, possibly extending as far south as the Santa Ana Mountains, however relative humidity is only expected to lower to 25-35 percent in the afternoon. No fire weather watches/warnings are expected at this time.

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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...Wind Advisory from 8 PM Saturday to 8 AM PDT Sunday for Coachella Valley-San Diego County Deserts-San Geronimo Pass Near Banning.

Beach Hazards Statement through Sunday afternoon for San Diego County Coastal Areas.

High Surf Advisory until 5 PM PDT Sunday for Orange County Coastal Areas.

PZ...NONE.

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PUBLIC/FIRE WEATHER...10/JJT
AVIATION/MARINE...Moede/APR

IOWA STATE UNIVERSITY

College of Ag

Department of Agronomy

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FXUS65 KPSR 060421 AAA

AFDPSR

Area Forecast Discussion

National Weather Service Phoenix AZ

922 PM MST Fri Oct 5 2018

.UPDATE...Updated aviation discussion

.SYNOPSIS...

Drier air will temporarily be in place through early in the day tomorrow before another cool Pacific weather system dips into the region tomorrow night. This system will bring good chances for showers and thunderstorms mainly over the central and eastern portions of Arizona. It will also bring even cooler temperatures with afternoon highs struggling to get into the 80s in many locations on Sunday and Monday and overnight lows in the 50s. Temperatures will remain below normal for all of next week with rain chances returning late next week.

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.DISCUSSION...Dry conditions will prevail again today as a dry weak trough pushes across the region. Temperatures will continue to be a few degrees below normal with highs west of the Colorado River Valley in the upper 80s and highs east of the Colorado River Valley in the low to mid 80s. With clear skies and light winds forecast tonight, expect temperatures to drop down into the low to mid 60s this evening.

As far as the forecast goes for tomorrow onward, everything still remains on track for this weekends weather system. The only major change made was issuing a Wind Advisory for zones 560 and 562 in southeast California. This Wind Advisory will be in effect from 8 pm PST Saturday evening to 8 am PST Sunday morning.

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.PREVIOUS DISCUSSION...The next weather system is beginning to take shape off the Pacific Northwest coast and is forecast to dive south southeast through the Interior West later today and Saturday. By Saturday evening, models show the main shortwave trough and the nose of a strong upper level jet max already reaching into northwest Arizona and southern California. The trough will undergo rapid intensification Saturday night into Sunday as the jet max dives into the base of the trough. Models continue to show this unseasonably strong and cold trough will provide ample dynamics aloft along with bringing a weak surface cold front through the region.

Moisture will be sufficient given the strong dynamics of the

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

system, but we are not anticipating a widespread heavy rainfall event. The latest PoPs have changed very little from the previous forecast with the best rain chances across the central and eastern Arizona high terrain and northern portions of the south-central Arizona deserts. Showers and thunderstorms should initially develop sometime Saturday evening well north and northwest of Phoenix with the bulk of the activity remaining north of the CWA until well after midnight Saturday night. As the cold front dips southeast during the overnight before stalling out over central Arizona Sunday, we should see showers and thunderstorms develop across La Paz and Maricopa County by sunrise Sunday morning. Strong low and mid level southerly upslope flow will combine with the upper level support to bring showers and possibly thunderstorms through the rest of Sunday morning across Phoenix and areas to the north. Showers and thunderstorms should mostly shift east of the Phoenix area Sunday afternoon, but persist across the higher terrain of eastern and central Arizona into Sunday night.

The ingredients should be present for some strong to severe thunderstorms mainly Sunday morning with upwards of 50kts of 0-6km shear. Since moisture levels will not be all that high, CAPE will be the limiting factor, but models are showing modest CAPE values of 500 J/kg to possibly as high as 1000. If storms are able to become organized enough, damaging winds and even some modest hail will be possible. Storms should also produce locally heavy rainfall and given the wet early part of the week, the flood threat will also be there for areas north of Phoenix. Forecast rain amounts for Saturday night and Sunday range from very little southwest of Phoenix to as much as one inch across the high terrain north and east of Phoenix.

The deep upper level low will slowly shift eastward on Monday, but we will continue to see chances of showers and thunderstorms across the eastern half of Arizona. Activity will mainly shift east of Phoenix on Monday following the cold core aloft as it begins to shift into New Mexico. Steep mid level lapse rates across the eastern Arizona high terrain should bring another round of thunderstorms Monday afternoon assuming there is enough sunshine to destabilize the low levels.

The already below normal temperatures will fall further starting Sunday with highs only the 70s across much of southern Arizona to as high as the lower 80s across southeast California. Overnight lows Sunday night should be the lowest so far this season with widespread readings in the upper 50s to lower 60s. Highs Monday should be similar to Sunday's while some drying late Monday will push lows Monday night in the middle 50s. The trough will finally lift well northeast by Tuesday with rapidly building heights aloft, but highs will only recover a few degrees Tuesday followed by a bit more for Wednesday.

Attention then turns to what could be another significant tropical event for portions of the Desert Southwest late next week.

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

Hurricane Sergio, which is currently slowly drifting westward well southwest of the tip of Baja, is forecast to make an abrupt turn to the northeast on Monday and then the remnants might end up making their way into the Desert Southwest late next week. Since it is nearly a week away, there is still a decent amount of uncertainty in the track, but the bulk of the GFS ensemble members and even the European show the track through southeast Arizona. Given the current forecast track, we have increased PoPs a good amount for next Thursday with the highest PoPs focused to the southeast and east of Phoenix. We should get a better picture over the next few days on the eventual track and the potential heavy rainfall amounts that may accompany the storm system.

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.AVIATION...

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

A clearing trend to continue into early Sat morning as drier air moves into the region from the west. Clouds to then gradually increase again Sat afternoon/night, with FEW-SCT decks as low as 7k feet possible as the next pacific storm system begins to approach the region from the northwest, with chances for showers and lower cigs increasing by early Sunday morning. Winds to follow the usual diurnal trends through the TAF period, with a bit of gustiness Sat afternoon.

Southeast California/Southwest Arizona including KIPL and KBLH:

Dry conditions are expected to prevail through the TAF period at KIPL, with winds remaining mainly out of westerly direction, with wind speeds topping out in the 15-20 kt range by Sat afternoon/evening, with gusts as high as 28 kts. CLR skies at KBLH tonight/early Sat to give way to SCT-BKN mid/high clouds by Sat evening/early Sun morning. West-southwest winds tonight/Sat to become northwesterly Sat night. wind speeds topping out in the 14-18 kt range by Sat afternoon/evening, with gusts as high as 25 kts.

Aviation Discussion not updated for amended TAFs.

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.FIRE WEATHER...

Monday through Friday:

Overall, minimal fire weather concerns through the period. Residual moisture will keep thunderstorm chances mainly over the higher terrain north and east of Phoenix on Monday. Dry conditons will then return Tuesday and Wednesday, before moisture increases again on Thursday. Along and west of the Colorado River, minimum humidities will be below 30 percent, with the exception of Thursday where minimum humidity values will be closer to the 30 to 40 percent range. East of the Colorado River, minimum humidities will range from 25 to 55 percent on Monday, lowering a

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

bit on Tuesday and Wednesday, before another surge of moisture occurs on Thursday. Winds will generally remain light, outside of a few afternoon breezes.

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.SPOTTER INFORMATION STATEMENT...

Spotters should follow standard reporting procedures.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...None.

CA...Wind Advisory from 8 PM Saturday to 8 AM PDT Sunday for CAZ560-562.

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DISCUSSION...Hernandez

PREVIOUS DISCUSSION...Kuhlman

AVIATION...Percha

FIRE WEATHER...Hernandez

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WWUS75 KPSR 060839

NPWPSR

URGENT - WEATHER MESSAGE

National Weather Service Phoenix AZ

139 AM MST Sat Oct 6 2018

CAZ560-562-062230-

/O.CON.KPSR.WI.Y.0018.181007T0300Z-181007T1500Z/

Joshua Tree NP West-Imperial County Southwest-

Including the cities of Cottonwood Visitor and Lost Horse-Keys
Village

139 AM PDT Sat Oct 6 2018

...WIND ADVISORY REMAINS IN EFFECT FROM 8 PM THIS EVENING TO 8 AM
PDT SUNDAY...

* WINDS...Northwest 20 to 30 mph with gusts up to 45 mph.

* TIMING...8 pm this evening to 8 am PDT Sunday.

* IMPACTS...Strong winds will make travel difficult for high-
profile vehicles. Blowing dust and sand may reduce visibility in
deserts at times.

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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Department of Agronomy

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WWUS76 KSGX 060956

NPWSGX

URGENT - WEATHER MESSAGE

National Weather Service San Diego CA

256 AM PDT Sat Oct 6 2018

CAZ061-062-065-062100-

/O.EXT.KSGX.WI.Y.0017.181007T0000Z-181007T1500Z/

Coachella Valley-San Diego County Deserts-

San Gorgonio Pass Near Banning-

Including the cities of Borrego Springs and Desert Hot Springs

256 AM PDT Sat Oct 6 2018

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

* Winds...Westerly 20 to 30 mph with gusts to 50 mph.

* Timing...5 PM today through 8 AM Sunday.

* Location...Areas of the Coachella Valley, Low Desert and the
San Gorgonio Pass.

* Visibility...Could be reduced to only 1 mile or less in areas
of blowing dust and sand.

* Impacts...Strong winds will make travel difficult for high-
profile vehicles.

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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jmb

weather.gov

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505

FXUS65 KPSR 061006

AFDPSR

Area Forecast Discussion

National Weather Service Phoenix AZ

306 AM MST Sat Oct 6 2018

.SYNOPSIS...

A Pacific weather system moving in will bring good chances for showers and thunderstorms over central and eastern portions of Arizona tonight through Sunday. Cooler temperatures are expected behind this system with afternoon highs struggling to get into the 80s in many locations Sunday through Tuesday. Temperatures will remain below normal for all of next week with precipitation chances returning late next week.

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.DISCUSSION...

Another quiet morning is being observed across the Desert Southwest with clear skies and light winds being reported across our CWA. Temperatures have already fallen into the low 70s this morning for both Phoenix and Yuma with 60s being observed outside the urban heat island. Aloft, a trough of low pressure is currently digging southward along the West Coast bringing showers and a shield of clouds to California and Nevada while a ridge of high pressure engulfs most of the East Coast.

The aforementioned upper level trough will continue to dive southward towards our CWA this afternoon and tighten surface pressure gradients as it does so. This should bring a noticeable uptick in winds in SE California this afternoon with gusts 20-30 mph over much of the area. Even stronger winds are forecast over elevated terrain tonight as the trough deepens. This has prompted a wind advisory over Joshua Tree National Park and far southwest Imperial County where gusts could approach 45 mph.

The weather becomes a bit more interesting early Sunday morning when a trailing cold front drags across our area. Strong southwesterly flow out ahead of this front combined with a bit of moisture (PWs ~ 1.0 inches) and upslope flow will likely trigger showers and thunderstorms across the northern half of our CWA. The current HREF ensemble mean has roughly 250-500 J/kg of CAPE along this front with strong (40 kts) 0-6 km shear. Most HREF members show a decent amount of thunderstorm activity over northern La Paz and Maricopa counties early Sunday morning while the HRRR, which is most certainly an outlier, has almost none. Given the shear environment, whatever storms that do develop will likely have rotation which will aid in their ability to become severe. In terms of flash flooding, the threat should be minimal to perhaps

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

moderate. Storm motion will be extremely fast (Corfidi downshear of 60 kts!) but training along the front will likely create at least a few areas of flash flooding.

The front will sweep through rather quickly Sunday morning (between 9-15Z for Phoenix) and will give us the best shot at precipitation. Low chances will continue Sunday afternoon and even into early Monday morning as post frontal showers and storms are not out of the question. Our region begins drying out late Monday afternoon as drier and cooler air is advected in. In fact, highs Monday and Tuesday will likely stay in the 70s for most locations in south-central Arizona.

This benign weather is forecast through Wednesday before the remnants of what is currently Hurricane Sergio begins to affect our weather. The currently westward tracking Hurricane will take an abrupt turn to the north and east this weekend and track somewhere into the Desert Southwest around Thursday of next week. The current GEFS ensemble mean path shows the remnants tracking through far southeast Arizona. If this particular solution comes to fruition, most of the impacts and rainfall associated with this system would be over Tucson. However, the GEFS ensemble mean still indicates a half an inch of rain could fall over Phoenix. In slight contrast, the ECMWF ensemble moves the remnants of Sergio south of Arizona but the moistures interacts with a passing trough over the southwest on Friday. This would also undoubtedly bring precipitation across our area and perhaps much farther north than what is currently suggested by the GEFS. Long story short, there is still much uncertainty as to what may happen as Sergio gets caught up in the mid-latitude westerlies and interacts with the large scale pattern. For now, precipitation towards the end of next week looks to be a safe bet but the magnitude and impacts remain to be seen.

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.AVIATION...

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

A clearing trend to continue into early Sat morning as drier air moves into the region from the west. Clouds to then gradually increase again Sat afternoon/night, with FEW-SCT decks as low as 7k feet possible as the next pacific storm system begins to approach the region from the northwest, with chances for showers and lower cigs increasing by early Sunday morning. Winds to follow the usual diurnal trends through the TAF period, with a bit of gustiness Sat afternoon.

Southeast California/Southwest Arizona including KIPL and KBLH:

Dry conditions are expected to prevail through the TAF period at KIPL, with winds remaining mainly out of westerly direction, with

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

wind speeds topping out in the 15-20 kt range by Sat afternoon/evening, with gusts as high as 28 kts. CLR skies at KBLH tonight/early Sat to give way to SCT-BKN mid/high clouds by Sat evening/early Sun morning. West-southwest winds tonight/Sat to become northwesterly Sat night. wind speeds topping out in the 14-18 kt range by Sat afternoon/evening, with gusts as high as 25 kts.

Aviation Discussion not updated for amended TAFs.

&&

.FIRE WEATHER...

Monday through Friday:

Overall, minimal fire weather concerns through the period. Residual moisture will keep thunderstorm chances mainly over the higher terrain north and east of Phoenix on Monday. Dry conditons will then return Tuesday and Wednesday, before moisture increases again on Thursday. Along and west of the Colorado River, minimum humidities will be below 30 percent, with the exception of Thursday where minimum humidity values will be closer to the 30 to 40 percent range. East of the Colorado River, minimum humidities will range from 25 to 55 percent on Monday, lowering a bit on Tuesday and Wednesday, before another surge of moisture occurs on Thursday. Winds will generally remain light, outside of a few afternoon breezes.

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.SPOTTER INFORMATION STATEMENT...

Spotters should follow standard reporting procedures.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...None.

CA...Wind Advisory from 8 PM this evening to 8 AM PDT Sunday for CAZ560-562.

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DISCUSSION...Wilson

AVIATION...Percha

FIRE WEATHER...Hernandez

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FXUS66 KSGX 061052

AFDSGX

Area Forecast Discussion

National Weather Service San Diego CA

352 AM PDT Sat Oct 6 2018

.SYNOPSIS...

High surf will occur at the beaches this weekend as a low pressure trough drops into the Great Basin. The marine layer will also deepen and gusty winds will occur over the mountains and deserts. Light showers will be possible along and west of the mountains tonight and Sunday and it will be a bit cooler. Next week will continue partly cloudy, but slightly warmer during the daytime.

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

We are monitoring a pretty strong shortwave trough over Oregon and NorCal which is beginning to dive SSE as evidenced on water vapor satellite this morning. The trough will slide into the Great Basin later today and then deepen into a closed low over Utah and Arizona through Sunday. As with most inside sliders type storms, most of the good moisture and dynamics will get swept too far to the NE to bring much significant precipitation to SoCal. The best chance for showers for our area will be late tonight and Sunday morning as the trough passes to the east and the best lift brushes across the region. The best areas to see showers would be over the north facing slopes and the mountains. There could even be a few snow showers in the highest elevations of the San Bernardino Mountains.

Winds will really pick up with this system. First we will see the westerly winds pick up over the Mojave Desert this afternoon with some patchy dust/sand concerns there this afternoon. Winds are not quite likely to be strong enough to support a wind advisory in our portion of the Mojave Desert. Stronger westerly winds will get into the lower deserts inc. the Coachella Valley and San Geronio Pass later this evening when a wind advisory takes effect, and blowing dust/sand could cause areas of reduced visibility in the lower deserts. Winds could gust to 50 mph at times in these locations through Sunday morning. Behind the trough Sunday the winds will switch to N to NNW (offshore) but not expected to be strong enough to support a wind advisory at that time.

The aforementioned closed low over UT/AZ will very slowly chug east and open back up into a trough. The trough will move across the 4 Corners through Monday night. Continued gusty northerly

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

winds will be noted along the south facing slopes during this time and could get into the edges of the Inland Empire. The flow regime will gradually switch to NW through mid next week and then westerly again as another trough passes over the Great Basin but further north across N UT and S ID Tue night into Wed.

At any rate the progressive pattern will keep temperatures from warming up a whole lot except for some localized warming below the slopes behind each trough given brief offshore flow. Temperatures will also trend slightly warmer through the middle of next week with increasing heights.

Yet another inside slider could affect SoCal late next week and the medium range models suggest this could be a stronger system and could tap into some remnant tropical moisture from Hurricane Sergio so that has the potential to be another tenuous forecast for SoCal given all the variables at play. We have increased cloud cover and pops a bit for late next week but not quite high enough to mention precip in the forecast.

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.AVIATION...

060900Z...Coast/Valleys...Stratus with bases 1000-1400 ft MSL will continue to fill in along the coast this morning, spreading into the western valleys by 15Z and producing local vis 3-5 SM in BR. Clearing will occur in the valleys 15-17Z, though portions of the coast may remain BKN-OVC through much of the afternoon with bases lifting to around 2000-2500 ft MSL. Stratus will fill in west of the mountains tonight with bases remaining near 2500 ft MSL and tops rising to 4000 ft MSL. ISO -SHRA possible late tonight into Sunday morning.

Mountains/Deserts... A few high clouds and unrestricted vis through this evening, then increasing clouds AOA 10000 ft MSL tonight with ISO -SHRA possible over portions of the high desert. West winds increasing along the mountain ridges into the deserts after 22Z with sfc gusts 30-40 kt. MOD-STG UDDFS and areas of LLWS developing over and E of the mountains. Winds will weaken early Sunday morning.

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.MARINE...

Another weak cold front will bring gusty west-northwest winds to the coastal waters for a brief time this evening with gusts to around 20 kt near San Clemente Island. There is a slight chance of showers tonight into Sunday evening.

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.BEACHES...

South swells of 5 ft/14 sec/180 deg and 2 ft/16 sec/220 deg from

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

Hurricane Sergio will peak this morning then slowly fade through Sunday. This will continue to generate surf of 6-8 ft with sets to 10 ft along south facing beaches and 3-6 ft surf elsewhere. A High Surf Advisory for Orange County and a Beach Hazards Statement for San Diego County remain in effect through Sunday afternoon. Swell and surf will lower through Monday morning, then rebuild Monday afternoon through Thursday as Sergio curves to the north and east. The swell may peak as high as 8 ft/16 sec/190-200 deg, producing even larger surf.

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.FIRE WEATHER...

Our first round of seasonal Santa Anas will develop Sunday as a trough moves across the region. Northerly wind gusts of 35-45 mph are possible along south-facing slopes of the San Bernardino County mountains on Sunday, possibly extending as far south as the Santa Ana Mountains, however relative humidity is only expected to lower to 25-35 percent in the afternoon. No fire weather watches/warnings are expected at this time.

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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...Wind Advisory from 5 PM this afternoon to 8 AM PDT Sunday for Coachella Valley-San Diego County Deserts-San Geronimo Pass Near Banning.

Beach Hazards Statement through Sunday afternoon for San Diego County Coastal Areas.

High Surf Advisory until 5 PM PDT Sunday for Orange County Coastal Areas.

PZ...NONE.

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PUBLIC/FIRE WEATHER...Brotherton
AVIATION/MARINE...SS

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680

FXUS65 KPSR 061149

AFDPSR

Area Forecast Discussion

National Weather Service Phoenix AZ

449 AM MST Sat Oct 6 2018

.UPDATE...Updated Aviation Discussion...

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.SYNOPSIS...

A Pacific weather system moving in will bring good chances for showers and thunderstorms over central and eastern portions of Arizona tonight through Sunday. Cooler temperatures are expected behind this system with afternoon highs struggling to get into the 80s in many locations Sunday through Tuesday. Temperatures will remain below normal for all of next week with precipitation chances returning late next week.

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.DISCUSSION...

Another quiet morning is being observed across the Desert Southwest with clear skies and light winds being reported across our CWA. Temperatures have already fallen into the low 70s this morning for both Phoenix and Yuma with 60s being observed outside the urban heat island. Aloft, a trough of low pressure is currently digging southward along the West Coast bringing showers and a shield of clouds to California and Nevada while a ridge of high pressure engulfs most of the East Coast.

The aforementioned upper level trough will continue to dive southward towards our CWA this afternoon and tighten surface pressure gradients as it does so. This should bring a noticeable uptick in winds in SE California this afternoon with gusts 20-30 mph over much of the area. Even stronger winds are forecast over elevated terrain tonight as the trough deepens. This has prompted a wind advisory over Joshua Tree National Park and far southwest Imperial County where gusts could approach 45 mph.

The weather becomes a bit more interesting early Sunday morning when a trailing cold front drags across our area. Strong southwesterly flow out ahead of this front combined with a bit of moisture (PWs ~ 1.0 inches) and upslope flow will likely trigger showers and thunderstorms across the northern half of our CWA. The current HREF ensemble mean has roughly 250-500 J/kg of CAPE along this front with strong (40 kts) 0-6 km shear. Most HREF members show a decent amount of thunderstorm activity over northern La Paz and Maricopa counties early Sunday morning while the HRRR, which is most certainly an outlier, has almost none. Given the shear

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

environment, whatever storms that do develop will likely have rotation which will aid in their ability to become severe. In terms of flash flooding, the threat should be minimal to perhaps moderate. Storm motion will be extremely fast (Corfidi downshear of 60 kts!) but training along the front will likely create at least a few areas of flash flooding.

The front will sweep through rather quickly Sunday morning (between 9-15Z for Phoenix) and will give us the best shot at precipitation. Low chances will continue Sunday afternoon and even into early Monday morning as post frontal showers and storms are not out of the question. Our region begins drying out late Monday afternoon as drier and cooler air is advected in. In fact, highs Monday and Tuesday will likely stay in the 70s for most locations in south-central Arizona.

This benign weather is forecast through Wednesday before the remnants of what is currently Hurricane Sergio begins to affect our weather. The currently westward tracking Hurricane will take an abrupt turn to the north and east this weekend and track somewhere into the Desert Southwest around Thursday of next week. The current GEFS ensemble mean path shows the remnants tracking through far southeast Arizona. If this particular solution comes to fruition, most of the impacts and rainfall associated with this system would be over Tucson. However, the GEFS ensemble mean still indicates a half an inch of rain could fall over Phoenix. In slight contrast, the ECMWF ensemble moves the remnants of Sergio south of Arizona but the moistures interacts with a passing trough over the southwest on Friday. This would also undoubtedly bring precipitation across our area and perhaps much farther north than what is currently suggested by the GEFS. Long story short, there is still much uncertainty as to what may happen as Sergio gets caught up in the mid-latitude westerlies and interacts with the large scale pattern. For now, precipitation towards the end of next week looks to be a safe bet but the magnitude and impacts remain to be seen.

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.AVIATION...

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

High clouds to rapidly increase this morning while winds remain generally 10kts or less following diurnal trends through this afternoon. A cold front will move through the area late tonight with showers and possibly thunderstorms affecting area terminals, especially for KSDL and KPHX. Most storm activity should move through the northern half of Phoenix and areas north around 12Z Sunday. Gusty south to southwesterly winds should develop ahead of the cold front around 09Z and last through around 15Z Sunday.

Southeast California/Southwest Arizona including KIPL and KBLH:

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

Dry conditions are expected to prevail through the TAF period at KIPL and KBLH with winds remaining mainly out of southwest and becoming gusty this afternoon to around 20 kt. Winds will increase this evening at KIPL with gusts up to 30kts while winds turn out of the northwest and decrease at KBLH.

Aviation Discussion not updated for amended TAFs.

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.FIRE WEATHER...

Monday through Friday:

Overall, minimal fire weather concerns through the period.

Residual moisture will keep thunderstorm chances mainly over the higher terrain north and east of Phoenix on Monday. Dry conditons will then return Tuesday and Wednesday, before moisture increases again on Thursday. Along and west of the Colorado River, minimum humidities will be below 30 percent, with the exception of Thursday where minimum humidity values will be closer to the 30 to 40 percent range. East of the Colorado River, minimum humidities will range from 25 to 55 percent on Monday, lowering a bit on Tuesday and Wednesday, before another surge of moisture occurs on Thursday. Winds will generally remain light, outside of a few afternoon breezes.

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.SPOTTER INFORMATION STATEMENT...

Spotters should follow standard reporting procedures.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...None.

CA...Wind Advisory from 8 PM this evening to 8 AM PDT Sunday for CAZ560-562.

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DISCUSSION...Wilson

AVIATION...Kuhlman

FIRE WEATHER...Hernandez

**IOWA STATE
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FXUS66 KSGX 061705

AFDSGX

Area Forecast Discussion

National Weather Service San Diego CA

1005 AM PDT Sat Oct 6 2018

.SYNOPSIS...

High surf will occur at the beaches this weekend as a low pressure trough drops into the Great Basin. The marine layer will also deepen and gusty winds will occur over the mountains and deserts. Light showers will be possible along and west of the mountains tonight and Sunday and it will be a bit cooler. Next week will continue partly cloudy, but slightly warmer during the daytime.

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

At 9 AM PDT, water vapor satellite showed a low pressure trough moving southeast across central CA, and a large upper-level ridge around 1000 miles west of CA. Visible satellite showed low clouds across most of the coastal basin, with slow inland clearing due to high clouds across the region and a coastal eddy. Coastal areas may remain cloudy throughout most of the day. High across the area today will range from 5-15 degrees below normal.

The trough will strengthen onshore flow throughout the day, and create breezy westerly wind gusts of 40-50 mph along the desert mountain slopes into nearby deserts. A Wind Advisory remains in effect from 5 pm this afternoon through 8 am Sunday for areas of the Coachella Valley, San Geronimo Pass and the Lower Deserts. Santa Ana winds quickly develop once the trough moves across the area, with north to northeast wind gusts of 25-45 mph possible across portions of the southwest-facing slopes of the San Bernardino County Mountains, the Santa Ana Mountains and the Inland Empire Sunday morning through Monday morning.

There will be enough moisture to generate some showers across the area as the trough traverses across the region. Latest high-res models show light showers first developing this evening across portions of the High Desert, and Riverside and San Bernardino County Mountains, then more across the coast/valleys/mountains of San Diego County tonight and Sunday morning, then a few heavier showers could develop over the mountains this afternoon and evening mostly across Riverside and San Diego Counties. A few hundredths to a tenth of an inch of rain are expected across the coast, valleys and deserts, with up to a quarter of an inch possible in the mountains. Locally higher

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

amounts are possible in stronger storms. Elevations of 8000 ft and higher could see a trace to a few tenths of an inch of snow through the period.

Highs will slowly increase closer to seasonal normals next week as upper-level heights slightly build. The next forecast challenge will be a potential trough moving across the area for the end of the work week. The latest ECMWF is deeper with the trough and generates some precipitation across our area, while the GFS keeps the better dynamics and moisture to the northeast, and maintains dry weather across SW CA. For now, we'll maintain dry weather unless 12Z models increase confidence for wet weather. The remnants of Sergio are likely going to remain to our south, but if moisture from the system move into our area, the likelihood of at least showers over the mountains next Thursday could increase.

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.AVIATION...

061530Z...Coast/Valleys...Stratus with bases 1200-2500 ft MSL will persist through 17z. Clearing will occur in the valleys 15-17Z, but portions of the immediate coast including KSAN/KCRQ may remain BKN-OVC through much of the afternoon. Stratus will fill in west of the mountains tonight with bases remaining near 2500 ft MSL and tops rising to 4000 ft MSL. Isolated -SHRA expected tonight and Sunday morning.

Mountains/Deserts...The main issue will be winds. West winds increasing along the mountain ridges into the deserts after 22Z with sfc gusts 30-40 kt. MOD-STG UDDFS and areas of LLWS developing over and E of the mountains. Winds will weaken early Sunday morning. Isolated showers are expected tonight and Sunday morning.

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.MARINE...

Another weak cold front will bring gusty west-northwest winds to the coastal waters for a brief time this evening with gusts to around 20 kt near San Clemente Island. There is a slight chance of showers tonight into Sunday evening.

&&

.BEACHES...

Will see surf of 6-8 ft with sets to 10 ft along south facing beaches and 3-6 ft surf elsewhere. A High Surf Advisory for Orange County and a Beach Hazards Statement for San Diego County remain in effect through Sunday afternoon. Expect a brief lowering of surf on Monday. Swells from Hurricane Sergio will impact the beaches Tuesday through Thursday. The swell may peak as high as 8 ft/16 sec/190-200 deg, resulting in larger surf this period than is being seen this weekend.

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October 6, 2018 Exceptional Event, Imperial County**Appendix A**

.FIRE WEATHER...

Our first round of seasonal Santa Anas will develop Sunday as a trough moves across the region. Northerly wind gusts of 25-45 mph are possible along south-facing slopes of the San Bernardino County mountains on Sunday, possibly extending as far south as the Santa Ana Mountains, however relative humidity is only expected to lower to 25-35 percent in the afternoon. No fire weather watches/warnings are expected at this time.

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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...Wind Advisory from 5 PM this afternoon to 8 AM PDT Sunday for Coachella Valley-San Diego County Deserts-San Geronio Pass Near Banning.

Beach Hazards Statement through Sunday afternoon for San Diego County Coastal Areas.

High Surf Advisory until 5 PM PDT Sunday for Orange County Coastal Areas.

PZ...NONE.

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PUBLIC/FIRE WEATHER...JJT
AVIATION/MARINE...Moreland

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Department of Agronomy

716 Farm House Ln

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WWUS76 KSGX 062013

NPWSGX

URGENT - WEATHER MESSAGE

National Weather Service San Diego CA

113 PM PDT Sat Oct 6 2018

CAZ061-062-065-070415-

/O.CON.KSGX.WI.Y.0017.181007T0000Z-181007T1500Z/

Coachella Valley-San Diego County Deserts-

San Gorgonio Pass Near Banning-

Including the cities of Borrego Springs and Desert Hot Springs

113 PM PDT Sat Oct 6 2018

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

* Winds...Westerly 20 to 30 mph with gusts to 50 mph.

* Timing...5 PM this afternoon through 8 AM Sunday.

* Location...Areas of the Coachella Valley, Low Desert and the
San Gorgonio Pass.

* Visibility...Could be reduced to 1 mile or less in areas of
blowing dust and sand.

* Impacts...Strong winds will make travel difficult for high-
profile vehicles.

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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JJT

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FXUS66 KSGX 062045

AFDSGX

Area Forecast Discussion

National Weather Service San Diego CA

145 PM PDT Sat Oct 6 2018

.SYNOPSIS...

Elevated surf and strong rip currents will occur at the beaches this weekend. The marine layer will also deepen and gusty winds will occur over the mountains and deserts. Light showers will be possible along and west of the mountains tonight and Sunday and it will be a bit cooler. Next week will continue partly cloudy, but slightly warmer during the daytime.

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

At 1 PM PDT, water vapor satellite showed a low pressure trough moving southeast across central CA, and a large upper-level ridge around 1000 miles west of CA. Visible satellite showed low clouds across most of the coastal basin, with stubborn clearing in the valleys from a strong coastal eddy.

The trough will strengthen onshore flow throughout the day, and create breezy westerly wind gusts of 40-50 mph along the desert mountain slopes into nearby deserts. A Wind Advisory remains in effect from 5 PM this afternoon through 8 AM Sunday for areas of the Coachella Valley, San Geronimo Pass and the Lower Deserts. Santa Ana winds quickly develop once the trough moves across the area, with north to northeast wind gusts of 25-45 mph possible across portions of the southwest-facing slopes of the San Bernardino County Mountains, the Santa Ana Mountains and the Inland Empire Sunday morning through Monday morning.

There will be enough moisture to generate some showers across the area as the trough traverses across the region. Latest high-res models show light showers first developing this evening across portions of the High Desert, and Riverside and San Bernardino County Mountains, then more across the coast/valleys/mountains of San Diego County tonight and Sunday morning, then a few heavier showers could develop over the mountains this afternoon and evening mostly across Riverside and San Diego Counties. A few hundredths to a tenth of an inch of rain are expected across the coast, valleys and deserts, with up to a quarter of an inch possible in the mountains. Locally higher amounts are possible in stronger storms. Elevations of 8000 ft and higher could see a trace to a few tenths of an inch of snow through the period.

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

Highs will slowly increase closer to seasonal normals next week as upper-level heights slightly build. The next forecast challenge will be a potential trough moving across the area for the end of the work week. The latest ECMWF is deeper with the trough and generates some light precipitation across our area as a cut off low breaks apart from the trough and moves over the area. The GFS keeps the better dynamics and moisture to the northeast, and maintains dry weather across SW CA. For now, we'll maintain dry weather in the forecast.

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.AVIATION...

062030Z...Coast/Valleys...Stratus with bases 1200-2500 ft MSL persists across the San Diego County valleys and much of the inland empire while partial clearing has taken place near KSNA. Forecast model soundings show ceilings mostly holding across inland empire and valleys through this evening. Stratus will fill in over the rest of the area this evening 00-04Z with bases 1200-1800 ft MSL and tops around 3000 ft MSL. Skies should clear at KONT/KSBD this evening however. Isolated -SHRA expected tonight and Sunday morning.

Mountains/Deserts...The main issue will be winds. West winds increasing along the mountain ridges into the deserts after 22Z with sfc gusts 30-40 kt. MOD-STG UDDFS and areas of LLWS developing over and E of the mountains. Winds will weaken early Sunday morning. Isolated showers are expected mainly over the mountains tonight and Sunday morning.

&&

.MARINE...

Another weak cold front will bring gusty west-northwest winds to the coastal waters for a brief time this evening with gusts to around 20 kt near San Clemente Island. There is a slight chance of showers tonight into Sunday evening.

&&

.BEACHES...

Surf generally running 5-6 feet at the beaches today with some higher sets. Will keep High Surf Advisory for the Orange County beaches for now but may be able to lower it tonight. Expect lower surf levels Sunday afternoon through Tuesday. Swells associated with Hurricane Sergio will generate higher surf and strong rip currents again Wednesday/Thursday.

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.FIRE WEATHER...

Westerly wind gusts of 40-50 mph will develop along portions of the desert mountain slopes into adjacent deserts this afternoon

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

through tonight. Our first round of seasonal Santa Anas will develop Sunday as a trough moves across the region. Northerly wind gusts of 25-45 mph are possible along south-facing slopes of the San Bernardino County mountains on Sunday, possibly extending as far south as the Santa Ana Mountains, however relative humidity is only expected to lower to 25-35 percent in the afternoon. No fire weather watches/warnings are expected at this time.

&&

.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 Sunday for Coachella Valley-San Diego County Deserts-San Geronio Pass Near Banning.

Beach Hazards Statement through Sunday afternoon for San Diego County Coastal Areas.

High Surf Advisory until 5 PM PDT Sunday for Orange County Coastal Areas.

PZ...NONE.

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PUBLIC/FIRE WEATHER...JJT
AVIATION/MARINE...Moreland

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WWUS75 KPSR 062106

NPWPSR

URGENT - WEATHER MESSAGE

National Weather Service Phoenix AZ

206 PM MST Sat Oct 6 2018

CAZ560-562-071230-

/O.CON.KPSR.WI.Y.0018.181007T0300Z-181007T1500Z/

Joshua Tree NP West-Imperial County Southwest-

Including the cities of Cottonwood Visitor and Lost Horse-Keys
Village

206 PM PDT Sat Oct 6 2018

...WIND ADVISORY REMAINS IN EFFECT FROM 8 PM THIS EVENING TO 8 AM
PDT SUNDAY...

* WINDS...Northwest 20 to 30 mph with gusts up to 50 mph.

* TIMING...8 pm this evening to 8 am PDT Sunday.

* IMPACTS...Strong winds may blow down limbs, trees, and power
lines. Scattered power outages are expected.

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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FXUS65 KPSR 062235

AFDPSR

Area Forecast Discussion

National Weather Service Phoenix AZ

335 PM MST Sat Oct 6 2018

.SYNOPSIS...

A Pacific weather system will bring good chances for showers and thunderstorms over central and eastern portions of Arizona tonight through Sunday with lingering chances Monday. Cooler temperatures are expected behind this system with afternoon highs struggling to get into the 80s in many locations Sunday through Tuesday. Temperatures will remain below normal for all of next week with precipitation chances returning late next week.

&&

.DISCUSSION...

Rest of Today through Sunday...

Satellite imagery early this afternoon shows an upper trough digging southward over the Interior West. The imagery also shows lee cirrus, associated with the jet nosing into the deserts, overspreading the forecast area. Surface obs suggest a front is located roughly from southeast UT into the Mohave Desert. There are already thunderstorms over northwest Arizona due to the front and Div Q forcing as well. The trough and associated lifting mechanisms will sag southward tonight before starting to take more of an eastward track during the day Sunday. Dynamical forcing for our forecast area looks to be best over south-central AZ late tonight and during the morning Sunday before beginning to shift into east-central AZ in the afternoon. Meanwhile, the front tracks across Arizona portions of our forecast area overnight and during the day Sunday. In the process, isolated and weak showers start to develop over La Paz County and eastern Riverside County this evening before more numerous and stronger showers/thunderstorms develop east of there after 06Z. Just how far south they will extend remains in question. Most of the CAMs indicate a narrow broken band as far south as the Mexico border in Pima County but with better coverage over northern Maricopa and southern Gila Counties (and even more so for adjacent areas to the north). Showers/thunderstorms with the frontal zone will mostly be done by 21Z but with cold air aloft, more isolated instability-driven showers will continue over south-central AZ. As for the thunderstorms, there will be noteworthy CAPE for a cool season system as even the GFS has 500-1000 J/kg of boundary layer instability. There will also be noteworthy vertical shear with the SREF depicting mean Effective Shear values peaking at 30-40 kts over south-central AZ late tonight and through Sunday morning before beginning to decline. 0-6km shear will be even better at

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

40-50 kts. Lower level shear parameters are not highly impressive but certainly enough to merit attention. In fact, HREF updraft helicity forecasts indicate a non-zero chance for supercells. At a minimum, anticipate storms capable of small hail, brief heavy rain, and strong winds. There is also potential for the stronger storms to be fully severe. In fact, SPC included part of our forecast area in a Marginal risk (previously was only "general thunder").

With locally very heavy rain possible from the convection, there is potential for flash flooding over a very small portion of the forecast area starting late tonight and continuing during the day Sunday. In coordination with WFO FGZ, have issued a Flash Flood Watch for far northeast Maricopa County and part of southern Gila County. For the most part, this excludes metro Phoenix except for far northern portions.

A Wind Advisory remains in effect over portions of far southeast California due to the approaching system.

Temperatures drop off nicely Sunday (most noticeably over our eastern areas) with little change Monday before starting to recover Tuesday.

Monday and Tuesday...

A follow-on vort max reinvigorates some forcing over southeast AZ on Monday (brushing our eastern areas). That, and lingering cold air aloft keep a lingering chance going before tapering off Tuesday as the upper trough exits Arizona.

Wednesday through Saturday...

We will be dry and mild Wednesday before the remnants of what is currently Hurricane Sergio begins to affect our weather. The currently westward tracking Hurricane will take an abrupt turn to the north and east this weekend and track somewhere into the Desert Southwest beginning as early as Thursday. The current GEFS ensemble mean path shows the remnants tracking through far southeast Arizona. If this particular solution comes to fruition, most of the impacts and rainfall associated with this system would be over Tucson. However, the GEFS ensemble mean still indicates a half an inch of rain could fall over Phoenix. In slight contrast, the ECMWF ensemble moves the remnants of Sergio south of Arizona but the moistures interacts with a passing trough over the southwest on Friday. This would also undoubtedly bring precipitation across our area and perhaps much farther north than what is currently suggested by the GEFS. Long story short, there is still much uncertainty as to what may happen as Sergio gets caught up in the mid-latitude westerlies and interacts with the large scale pattern. For now, precipitation towards the end of next week looks to be a safe bet but the magnitude and impacts remain to be seen.

&&

.AVIATION...

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

For this afternoon expect occasionally breezy south to southwesterly winds near 10kt gusting to 15-18kt. Skies will remain partly cloudy with FEW-SCT decks from 7-15kft and BKN high clouds near 25Kft. Late tonight/early Sunday morning a cold front will bring scattered thunderstorms into the region with strong and gusty southeasterly to southwesterly winds with gusts of 18-30kt from 9-15Z. Also expect BKN CB decks near 5-7kft with the storms.

Southeast California/Southwest Arizona including KIPL and KBLH:

Very breezy to windy southwesterly to westerly winds are expected at KIPL near 12-19kt with gusts to 20-27kt through the period. Breezy southwesterly winds at KBLH through this evening are expected to become northwesterly by late tonight near 12-15kt. Skies will be partly cloudy with FEW-SCT decks from 8-9kft and occasionally BKN high cloud decks.

Aviation Discussion not updated for amended TAFs.

&&

.FIRE WEATHER...

Tuesday through Saturday:

Expect below normal temperatures and few fire weather concerns through the period. Drier conditions on Tuesday will be replaced by an increasing moisture trend by Wednesday. Min RH values will remain above 20 percent through the period with the exception of E Riverside Cty. CA. Winds will generally remain light although a bit breezy out west on Wednesday afternoon with southerly winds gusting 15-22kt. Overnight recovery will be excellent.

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.SPOTTER INFORMATION STATEMENT...

Spotters should follow standard reporting procedures.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...Flash Flood Watch from midnight MST tonight through Sunday afternoon for AZZ541-545-547-556-557.

CA...Wind Advisory from 8 PM this evening to 8 AM PDT Sunday for CAZ560-562.

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FXUS66 KSGX 070337

AFDSGX

Area Forecast Discussion

National Weather Service San Diego CA

837 PM PDT Sat Oct 6 2018

.SYNOPSIS...

Elevated surf and strong rip currents will occur at the beaches this weekend. The marine layer will also deepen and gusty winds will occur over the mountains and deserts. Light showers will be possible along and west of the mountains tonight and Sunday and it will be a bit cooler. Next week will continue partly cloudy, but slightly warmer during the daytime.

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

At 8 PM PDT...satellite imagery showed a cold trough digging sharply over SE CA. The cold air and strong vorticity associated with the trough had fired off considerable thunderstorm activity during the heat of the afternoon over NE San Bernardino County. Outflow from this activity was just entering our high desert areas and may create enough upslope onto the San Bernardinos to fire off some showers overnight. This is depicted on several of the latest hires models, but amounts are very light.

Meanwhile farther to the west, a moderate eddy was cranking in the CA Bight and the marine layer had deepened to about 3800 FT MSL according to the NKX 00Z sounding. This deep of a moist layer can easily leak some drizzle or light rain showers into Sunday morning, and onto the mtn slopes through the day. The sfc pressure gradients to the deserts had been trending higher until this evening. Now the trend is offshore from the high deserts and maintaining about 7 MBS onshore KSAN to the lower deserts. Westerly winds have been gusting over 40 MPH on a few wind-prone slopes and near passes, otherwise mostly 25-35 MPH gusts. A Wind Advisory remains in effect for the deserts through 8 AM PDT Sunday. The Zone Forecasts were updated to remove the High Surf Advisory. No other changes this evening.

From previous discussion...

The trough will strengthen onshore flow throughout the day, and create breezy westerly wind gusts of 40-50 mph along the desert mountain slopes into nearby deserts. A Wind Advisory remains in effect from 5 PM this afternoon through 8 AM Sunday for areas of the Coachella Valley, San Geronio Pass and the Lower Deserts. Santa Ana winds quickly develop once the trough moves across the area, with north to northeast wind gusts of 25-45 mph possible

October 6, 2018 Exceptional Event, Imperial County

across portions of the southwest-facing slopes of the San Bernardino County Mountains, the Santa Ana Mountains and the Inland Empire Sunday morning through Monday morning.

There will be enough moisture to generate some showers across the area as the trough traverses across the region. Latest high-res models show light showers first developing this evening across portions of the High Desert, and Riverside and San Bernardino County Mountains, then more across the coast/valleys/mountains of San Diego County tonight and Sunday morning, then a few heavier showers could develop over the mountains this afternoon and evening mostly across Riverside and San Diego Counties. A few hundredths to a tenth of an inch of rain are expected across the coast, valleys and deserts, with up to a quarter of an inch possible in the mountains. Locally higher amounts are possible in stronger storms. Elevations of 8000 ft and higher could see a trace to a few tenths of an inch of snow through the period.

Highs will slowly increase closer to seasonal normals next week as upper-level heights slightly build. The next forecast challenge will be a potential trough moving across the area for the end of the work week. The latest ECMWF is deeper with the trough and generates some light precipitation across our area as a cut off low breaks apart from the trough and moves over the area. The GFS keeps the better dynamics and moisture to the northeast, and maintains dry weather across SW CA. For now, we'll maintain dry weather in the forecast.

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.AVIATION...

070300Z...Coast/Valleys...Deep trough moving across SoCal will produce a non-uniform stratus deck west of the mountains tonight with bases from 2000-3000 ft MSL and tops 050. Isolated showers possible 10-16Z Sunday. A Catalina Eddy over the coastal waters will continue the south winds at KSAN, KCRQ and KSNA through 18Z Sunday. Skies clearing after 18Z.

Mountains/Deserts...Strong west to northwest tonight of 15-30 kt with gusts to 40 kt, strongest over the ridges and down the eastern slopes into the deserts and through the San Geronio Pass. Moderate to strong UDDFS over and E of the mountains. Winds decreasing Sunday morning. Isolated showers over the mountains and High Deserts tonight through early Sunday morning.

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.MARINE...

Gusty west-northwest winds to 20 kt over the Outer Waters near San Clemente Island tonight. South winds over the Inner Waters from a Catalina Eddy will continue through early Sunday afternoon.

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October 6, 2018 Exceptional Event, Imperial County**Appendix A**

.BEACHES...

Surf heights were 4-6 feet Saturday. Lower surf is forecast Sunday as the south swells from Hurricane Sergio fade. The High Surf Advisory for the Orange County beaches was cancelled. A Beach Hazard Statement for strong rip currents remains in effect through 5 PM Sunday for all SoCal beaches. A second round of south swells from Hurricane Sergio will generate higher surf Wednesday and Thursday.

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.FIRE WEATHER...

Westerly wind gusts of 40-50 mph will develop along portions of the desert mountain slopes into adjacent deserts this afternoon through tonight. Our first round of seasonal Santa Anas will develop Sunday as a trough moves across the region. Northerly wind gusts of 25-45 mph are possible along south-facing slopes of the San Bernardino County mountains on Sunday, possibly extending as far south as the Santa Ana Mountains, however relative humidity is only expected to lower to 25-35 percent in the afternoon. No fire weather watches/warnings are expected at this time.

&&

.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...Wind Advisory through 8 AM PDT Sunday for Coachella Valley-San Diego County Deserts-San Gorgonio Pass Near Banning.

Beach Hazards Statement through Sunday afternoon for San Diego and Orange County Coastal Areas.

PZ...NONE.

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PUBLIC...10/JJT

FIRE WEATHER...JJT

AVIATION/MARINE/BEACHES...Moede

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

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NOUS46 KSGX 071225

PNSSGX

CAZ043-048-050-055>058-060>062-065-552-554-080025-

Public Information Statement

National Weather Service San Diego CA

525 AM PDT Sun Oct 7 2018

...WIND REPORTS...

Location	Speed	Time/Date	Elevation (ft.)
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...San Gorgonio Pass Near Banning...

White Water Raws	52 MPH	0450 PM 10/06	2546
Desert Hot Springs (5 W)	42 MPH	0345 PM 10/06	1510
Thousand Palms (5 NNE)	41 MPH	0258 PM 10/06	1066

...San Diego County Mountains...

Volcan Mountain	47 MPH	0450 PM 10/06	5154
Boulevard (1 W)	41 MPH	1220 PM 10/06	3404
Harrison Park	41 MPH	0640 PM 10/06	4861
7 WSW Borrego Springs	39 MPH	0905 PM 10/06	4085
Ranchita (1 NE)	38 MPH	0707 PM 10/06	4415

...San Diego County Deserts...

Borrego Springs (3 W)	49 MPH	0210 PM 10/06	820
5 NE Borrego Springs	39 MPH	0917 PM 10/06	665
Borrego Valley Airport	38 MPH	0335 PM 10/06	522
Borrego Springs (2 E)	37 MPH	0320 PM 10/06	720
In Ko Pah	36 MPH	0540 PM 10/06	3221
Borrego Springs (7 SE)	36 MPH	0315 PM 10/06	587
Borrego Springs (9 S)	35 MPH	0430 PM 10/06	768

...San Diego County Coastal Areas...

Imperial Beach (NAS)	39 MPH	0313 PM 10/06	23
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...San Bernardino County Mountains...

Burns Canyon	35 MPH	0751 PM 10/06	6284
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...Riverside County Mountains...

Pinyon Pines	35 MPH	1036 AM 10/06	4060
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...Coachella Valley...

Thousand Palms	40 MPH	1030 PM 10/06	272
Palm Springs Airport	38 MPH	0954 PM 10/06	474
Thermal Airport	37 MPH	1045 PM 10/06	-118

...Apple and Lucerne Valleys...

3 E Victorville	40 MPH	0445 PM 10/06	2746
Hesperia (5 SW)	38 MPH	0345 PM 10/06	3723
Victorville (6 SW)	37 MPH	0443 PM 10/06	3164
Victorville (5 N)	37 MPH	0500 PM 10/06	4650

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

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ASUS66 KSGX 071216

RTPSGX

:SOUTHWESTERN CALIFORNIA TEMPERATURE AND PRECIPITATION SUMMARY

:NATIONAL WEATHER SERVICE SAN DIEGO CA

:530 AM PDT SUN OCT 07 2018

:

:***** 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 1007 P DH01/TAIRZX/DH04/TAIRZP/PPDRZZ/SDIRZZ

:

: ID :	STATION	ELEV :	HIGH /	LOW /	PCPN /	SNODEP
:		FEET				INCHES

:

: ...COASTAL AREAS...

:

SDYBL: YORBA LINDA 370 : 78 / 59 / 0.00 /

FUL : FULLERTON AIRPORT 96 : 76 / 62 / 0.00 /

ANAC1: * ANAHEIM 335 : 77 / M / M /

STAC1: SANTA ANA 135 : 76 / 63 / 0.00 /

SDHTB: HUNTINGTON BEACH 5 : 74 / 60 / 0.00 /

SNA : JOHN WAYNE AIRPORT 55 : 75 / 63 / 0.00 /

3L3 : * NEWPORT BEACH 10 : 72 / M / M /

LAGC1: LAGUNA BEACH 35 : M / M / M /

SDFRH: LAKE FOREST 970 : 73 / 58 / 0.00 /

L34 : OCEANSIDE HARBOR 10 : 71 / 61 / 0.00 /

OKB : OCEANSIDE AIRPORT 28 : 73 / 55 / 0.00 /

SDVIS: VISTA 330 : 71 / 61 / 0.00 /

CRQ : CARLSBAD AIRPORT 328 : 70 / 62 / 0.00 /

SDETS: ENCINITAS 270 : 71 / 60 / 0.00 /

SDDMB: DEL MAR BEACH 10 : 68 / 63 / 0.00 /

NKX : MIRAMAR 477 : 75 / 62 / 0.00 /

MYF : MONTGOMERY FIELD 420 : 71 / 61 / 0.00 /

SAN : SAN DIEGO INT'L AP 15 : 72 / 66 / 0.00 /

SDNAC: NATIONAL CITY 25 : 72 / 64 / 0.00 /

CVAC1: CHULA VISTA 65 : 71 / 62 / 0.00 /

NRS : IMPERIAL BEACH 23 : 72 / 60 / 0.00 /

SDM : BROWN FIELD 525 : 72 / 61 / 0.00 /

:

: ...INLAND AREAS...

:

ONT : ONTARIO 943 : 73 / 60 / 0.00 /

CNO : CHINO 652 : 77 / 58 / 0.00 /

SDALO: RANCHO CUCAMONGA 1940 : 70 / 57 / 0.00 /

October 6, 2018 Exceptional Event, Imperial County**Appendix A**

SBD :	SAN BERNARDINO	1086 :	73 /	61 /	0.00 /
AJO :	CORONA	531 :	77 /	52 /	0.00 /
RAL :	RIVERSIDE AIRPORT	818 :	74 /	57 /	0.00 /
UCRC1:	RIVERSIDE	986 :	72 /	57 /	0.00 /
RIV :	RIVERSIDE MARCH	1542 :	72 /	57 /	0.00 /
BUO :	BEAUMONT	2680 :	67 /	55 /	0.00 /
SDLEL:	LAKE ELSINORE	1275 :	75 /	59 /	0.00 /
SDHET:	HEMET	2050 :	70 /	57 /	0.00 /
SDTEC:	TEMECULA	1020 :	73 /	60 /	0.00 /
SDFBK:	FALLBROOK	698 :	73 /	61 /	0.00 /
VCFC1:	VALLEY CENTER	1312 :	70 /	58 /	0.00 /
SDSMP:	SAN MARCOS	630 :	70 /	61 /	0.00 /
ESCC1:	ESCONDIDO	645 :	73 /	62 /	0.00 /
PSQC1:	SAN PASQUAL VALLEY	255 :	75 /	57 /	0.00 /
RNM :	RAMONA AIRPORT	1393 :	71 /	57 /	0.00 /
SGX :	RANCHO BERNARDO	690 :	71 /	60 /	0.00 /
SDPOY:	POWAY	597 :	72 /	60 /	0.00 /
ALPC1:	ALPINE	1695 :	68 /	58 /	0.00 /
SDLAM:	LA MESA	500 :	70 /	59 /	0.00 /
SDSNL:	SANTEE	435 :	71 /	61 /	0.00 /
ELJC1:	EL CAJON	405 :	72 /	63 /	0.00 /
SDRSC:	RANCHO SAN DIEGO	400 :	72 /	61 /	0.00 /
LMGC1:	LEMON GROVE	427 :	69 /	61 /	0.00 /
:					
:	...MOUNTAIN AREAS...				
:					
ECSC1:	EL CARISO	2730 :	73 /	52 /	0.00 /
SDWRT:	WRIGHTWOOD	5980 :	62 /	44 /	0.01 /
SDARN:	LAKE ARROWHEAD	5180 :	64 /	41 /	0.01 /
BBLC1:	BIG BEAR LAKE	6768 :	M /	40 /	0.03 /
SDBDN:	BALDWIN LAKE	6770 :	58 /	40 /	0.05 /
SDAOK:	ANGELUS OAKS	5800 :	59 /	46 /	0.00 /
IDYC1:	IDYLLWILD	5380 :	63 /	45 /	0.00 /
NZAC1:	ANZA	3939 :	66 /	51 /	0.00 /
PYNC1:	PINYON PINES	4060 :	71 /	45 /	0.00 /
PLRC1:	* PALOMAR MOUNTAIN	5550 :	M /	M /	M /
JULC1:	JULIAN	4240 :	63 /	49 /	0.00 /
MLNC1:	* MOUNT LAGUNA	5920 :	64 /	M /	M /
CPMC1:	* CAMPO COOP	2615 :	M /	M /	M /
:					
:	...DESERT AREAS...				
:					
HESC1:	HESPERIA	3055 :	76 /	51 /	0.00 /
APLC1:	APPLE VALLEY	2780 :	76 /	46 /	0.00 /
PSP :	PALM SPRINGS	425 :	88 /	70 /	0.00 /
IDOC1:	INDIO	-21 :	88 /	71 /	0.00 /
TRM :	THERMAL	-117 :	92 /	73 /	0.00 /
BROC1:	* BORREGO SPRINGS	805 :	86 /	66 /	0.00 /
SDOCL:	OCOTILLO WELLS	149 :	90 /	72 /	0.00 /
BLH :	BLYTHE	397 :	91 /	67 /	0.00 /
IPL :	IMPERIAL	-56 :	93 /	67 /	0.00 /
.END					

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NPWSGX

URGENT - WEATHER MESSAGE

National Weather Service San Diego CA

537 AM PDT Sun Oct 7 2018

CAZ061-062-065-071345-

/O.CAN.KSGX.WI.Y.0017.000000T0000Z-181007T1500Z/

Coachella Valley-San Diego County Deserts-

San Geronio Pass Near Banning-

537 AM PDT Sun Oct 7 2018

...WIND ADVISORY IS CANCELLED...

The National Weather Service in San Diego has cancelled the Wind Advisory. Gusty winds will still be possible this morning but no longer likely to reach over 40 mph.

\$\$

jmb