Appendix A
Public Notification that a potential event was occurring
(40 CFR §50.14(c)(1)(i))

FIGURE A-1
NATIONAL WEATHER SERVICE PUBLIC ZONES

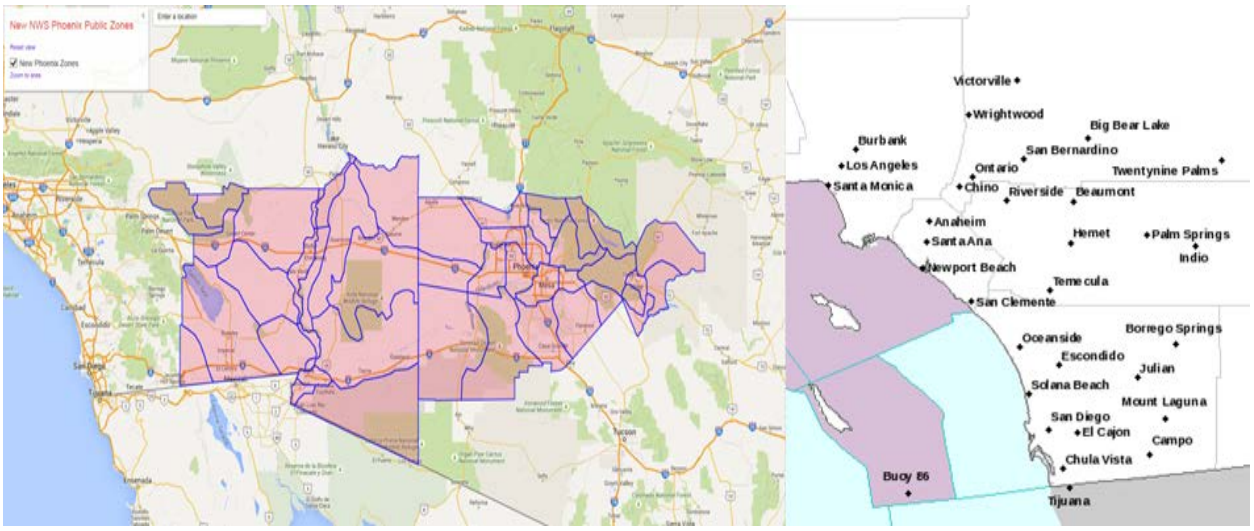

Fig A-1: Illustrates the public zones serviced by the National Weather Service Office in Phoenix and San Diego. Imperial County, including southeast sections of Riverside County are part of the reporting public zone areas from the Phoenix office

FIGURE A-2
NWS ZONE FORECAST FOR IMPERIAL COUNTY MAY 21, 2015 AND MAY 22, 2015

National Weather Service Forecast Office
San Diego, CA

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Marine Weather
Severe Weather
Hurricane Center
User Defined Area
Fastlinks
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Rivers and Lakes
Forecasts / Obs
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Climate portal
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Preparedness
Weather Radio
SkyWarn™
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TsunamiReady
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Items of Interest
Other Useful Links
Education Resources
COOP Observer
Our Office

PSRCAZ033

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CAZ033-212315-
IMPERIAL COUNTY-
INCLUDING THE CITIES OF...BRAWLEY...CALEXICO...EL CENTRO...GLAMIS...
IMPERIAL...AND THE SALTON SEA
426 AM MST THU MAY 21 2015

...WIND ADVISORY IN EFFECT FROM 2 PM THIS AFTERNOON TO 10 PM PDT THIS
EVENING...

.TODAY...PARTLY SUNNY AND WINDY. NOT AS WARM. HIGHS 78 TO 83. WEST
WIND 15 TO 25 MPH. GUSTS UP TO 40 MPH IN THE AFTERNOON.
.TONIGHT...PARTLY CLOUDY AND WINDY. LOWS 54 TO 64. WEST WIND 20 TO
30 MPH. GUSTS UP TO 45 MPH.
.FRIDAY...PARTLY SUNNY IN THE MORNING...THEN BECOMING MOSTLY SUNNY.
WINDY AND COOLER. HIGHS 73 TO 78. WEST WIND 15 TO 25 MPH. GUSTS UP TO
35 MPH.
.FRIDAY NIGHT...MOSTLY CLEAR AND WINDY. LOWS 53 TO 63. WEST WIND
15 TO 25 MPH. GUSTS UP TO 35 MPH IN THE EVENING.
.SATURDAY...MOSTLY SUNNY AND WARMER. HIGHS 78 TO 83. WEST WIND 5 TO
15 MPH.
.SATURDAY NIGHT...CLEAR. LOWS IN THE MID 50S TO MID 60S.
.SUNDAY...SUNNY AND WARMER. HIGHS IN THE MID TO UPPER 80S.
.SUNDAY NIGHT...CLEAR. LOWS IN THE MID 50S TO MID 60S.
.MEMORIAL DAY...SUNNY. HIGHS IN THE UPPER 80S TO LOWER 90S.
.MONDAY NIGHT...MOSTLY CLEAR. LOWS IN THE UPPER 50S TO UPPER 60S.
.TUESDAY...MOSTLY SUNNY. HIGHS IN THE UPPER 80S TO MID 90S.
.TUESDAY NIGHT...MOSTLY CLEAR. LOWS IN THE UPPER 50S TO UPPER 60S.
.WEDNESDAY...PARTLY SUNNY. HIGHS IN THE UPPER 80S TO MID 90S.
```

Fig A-2: A zone forecast issued by the NWS Phoenix office at 3:26am PST on May 21, 2015 carried a continuation of the wind advisory. The forecast called for winds of 15 to 25 mph with gusts up to 40 mph during the afternoon, with winds reaching 30 mph with gusts up to 45 mph by nightfall. The affected areas included Brawley, Calexico, El Centro, Glamis, Imperial and the Salton Sea

FIGURE A-3
ZONE FORECAST FOR IMPERIAL COUNTY MAY 22, 2015

www.weather.gov

National Weather Service
Telecommunication Operations Center

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Current Conditions, Forecasts, Watches and Warnings for Imperial County, CA

- Current Conditions in California
- Zone Forecast for Imperial County, CA
- State Forecast for California
- Area Conditions for Imperial County, CA

Zone Forecast for Imperial County, CA

Top of page Table of contents for Imperial County, CA

FPUS55 KPSR 221027
ZFPPSR

ZONE FORECASTS FOR SOUTHWEST ARIZONA/SOUTHEAST CALIFORNIA
NATIONAL WEATHER SERVICE PHOENIX AZ
327 AM MST FRI MAY 22 2015

CAZ033-222315-
IMPERIAL COUNTY-
INCLUDING THE CITIES OF...BRAWLEY...CALEXICO...EL CENTRO...GLAMIS...
IMPERIAL...AND THE SALTON SEA
327 AM MST FRI MAY 22 2015

TODAY
MOSTLY SUNNY AND WINDY. HIGHS 73 TO 78. WEST WIND 15 TO
25 MPH. GUSTS UP TO 40 MPH.

TONIGHT
MOSTLY CLEAR IN THE EVENING...THEN BECOMING PARTLY CLOUDY.
WINDY. LOWS 53 TO 63. WEST WIND 15 TO 25 MPH. GUSTS UP TO 40 MPH IN
THE EVENING.

SATURDAY
PARTLY SUNNY IN THE MORNING...THEN BECOMING MOSTLY SUNNY.
WARMER. HIGHS 78 TO 83. WEST WIND 10 TO 20 MPH.

SATURDAY NIGHT
MOSTLY CLEAR. LOWS 55 TO 65. WEST WIND 10 TO
20 MPH.

SUNDAY
SUNNY AND WARMER. HIGHS 83 TO 88. SOUTHWEST WIND 5 TO
10 MPH IN THE MORNING INCREASING TO 10 TO 20 MPH IN THE AFTERNOON.

SUNDAY NIGHT

http://weather.noaa.gov/cgi-bin/iwszone3 5/22/2015

Fig A-3: A zone forecast issued by the NWS Phoenix office at 2:27am PST on May 22, 2015 predicted winds of 15 to 25 mph with gusts reaching 40 mph by the evening. The affected areas included Brawley, Calexico, El Centro, Glamis, Imperial and the Salton Sea

FIGURE A-4
NWS SAN DIEGO OFFICE AREA FORECAST DISCUSSION

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ΓΓ
942
FXUS66 KSGX 210443
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
945 PM PDT WED MAY 20 2015

.SYNOPSIS...
LOW PRESSURE ALOFT WILL BRING CONTINUED COOL WEATHER THROUGH
SATURDAY. THERE WILL BE PERIODS OF SHOWERS FROM LATE TONIGHT THROUGH
FRIDAY...WITH A SLIGHT CHANCE OF THUNDERSTORMS WHEN THE COLDEST AIR
ALOFT MOVES THROUGH LATE THURSDAY NIGHT OR FRIDAY MORNING. LOCALLY
GUSTY WINDS WILL OCCUR IN THE DESERTS THROUGH FRIDAY...WITH
STRONGEST WINDS THURSDAY NIGHT. TEMPERATURES WILL INCREASE EARLY
NEXT WEEK BUT WILL LIKELY STILL REMAIN A LITTLE BELOW NORMAL FOR
THIS TIME OF YEAR.

&&

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

GOOD MODEL AGREEMENT THIS EVENING WITH THE INITIALIZATION OF THE
COMPACT SHORTWAVE 800 MILES WEST OF EUREKA. THIS SHORTWAVE WILL DIG
SOUTH DOWN THE WEST SIDE OF THE LONGWAVE TROUGH THROUGH THURSDAY. AS
IT DOES...THE LONGWAVE TROUGH WILL EVOLVE INTO A SHARPER AND MORE
WELL-DEFINED TROUGH...AND THE TROUGH AXIS WILL MOVE ACROSS SOUTHERN
CALIFORNIA THURSDAY NIGHT AND FRIDAY. THE ECMWF...GFS AND GFS
ENSEMBLE MEMBERS ALL REMAIN IN FAIRLY GOOD AGREEMENT WITH THE STORM
TRACK AND INTENSITY THROUGH FRIDAY AFTERNOON.

BOUNDARY LAYER MOISTURE DEEPENS TO 5000 FEET TONIGHT AND THERE COULD
BE SOME LIGHT PRECIP BY DAYBREAK. THE BEST CHANCE FOR MEASURABLE
WILL BE OVER THE FOOTHILLS AND LOWER COASTAL SLOPES WITH INCREASING
OROGRAPHIC FLOW.

THE MAIN EVENT WILL BE THURSDAY NIGHT INTO FRIDAY MORNING. SOUTHERN
CALIFORNIA WILL BE IN THE STORM CROSSHAIRS BETWEEN 06-18Z FRIDAY
WHEN STRONG PVA AND DIFLUENT FLOW MOVE ACROSS SO-CAL COINCIDENT WITH
A -21C 500 MB COLD CORE. THIS WILL BE OUR BEST CHANCE FOR SHOWERS
AND ISOLATED THUNDERSTORMS AS LAPSE RATES INCREASE WITH THE
ADVANCING COLD POOL ALOFT. MOISTURE IS STILL A LIMITING FACTOR...BUT
THE STRONG DYNAMICS AND COLD AIR ALOFT SHOULD PRODUCE A FEW MODERATE
CELLS. MOST LOCATIONS WILL SEE TOTAL PRECIP BELOW ONE-QUARTER INCH
THROUGH FRIDAY...BUT A FEW AREAS COULD SEE A HALF-INCH OR MORE.

IT WILL BE QUITE WINDY IN THE MOUNTAINS AND DESERTS THROUGH FRIDAY
WITH STRONGEST SUPPORT THURSDAY AFTERNOON THROUGH FRIDAY MORNING
WHEN A WIND ADVISORY WILL LIKELY BE NEEDED.

EXTENDED FORECAST...AFTER THE FRIDAY/SATURDAY SYSTEM MOVES
THROUGH...THE MODELS BEGIN TO DIVERGE ON A SOLUTION. THE GFS WANTS
TO BRING ANOTHER SHORTWAVE TROUGH CALIFORNIA WITH A CHANCE FOR SOME
LIGHT PRECIP OVER THE NORTHERN MOUNTAINS FOR SUNDAY INTO
MONDAY...WHILE THE ECMWF PRODUCES A WEAK RIDGE. THE TWO MODELS
CONTINUE TO OSCILLATE BETWEEN WEAK RIDGING AND TROUGHING THROUGH THE
MIDDLE OF NEXT WEEK...NEVER REALLY AGREEING AT THIS POINT.
THEREFORE...WILL KEEP A DRY FORECAST FOR THE EXTENDED.

&&

.AVIATION... 210400Z...COAST/VALLEYS/COASTAL MTN
SLOPES...STRATUS...WITH BASES BETWEEN 2500-3000 FT MSL...WILL
CONTINUE TO DEVELOP ALONG THE COAST AND INTO THE VALLEYS OVERNIGHT.
CLOUDS WILL THICKEN AND DEEPEN OVERNIGHT AS UPPER-LEVEL LOW PRESSURE
APPROACHES. ISOLATED AREAS OF -DZ WILL BE POSSIBLE EARLY THU
MORNING. CLOUDS WILL BECOME FEW/SCT BY LATE THU MORNING...THEN
REDEVELOP AGAIN ALONG THE COAST AND THEN INLAND THU EVENING.

DESERT MTN SLOPES/DESERTS...WEST WINDS 15-20 KT WITH GUSTS TO 35 KT
ARE POSSIBLE OVER MTN RIDGES...THROUGH/BELOW PASSES/CANYONS...DESERT
MTN SLOPES AND INTO ADJACENT DESERT AREAS THROUGH THU...AND COULD
CREATE MOD-STG UDDFS/LLWS AND POSSIBLE ROTORS OVER AND EAST OF THE
MTNS. ISOLATED GUSTS TO 50 KT ARE POSSIBLE THU EVENING.

&&
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Fig A-4: An Area Forecast Discussion issued by the NWS Phoenix office at 8:45pm PST on May 20, 2015. Source: Iowa Environmental Mesonet

FIGURE A-5
WIND ADVISORY FOR IMPERIAL COUNTY

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765
WWUS75 KPSR 210947
NPWPSR

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE PHOENIX AZ
247 AM MST THU MAY 21 2015

CAZ033-220500-
/O.NEW.KPSR.WI.Y.0007.150521T2100Z-150522T0500Z/
IMPERIAL COUNTY-
INCLUDING THE CITIES OF...BRAWLEY...CALEXICO...EL CENTRO...
GLAMIS...IMPERIAL...THE SALTON SEA
247 AM MST THU MAY 21 2015

...WIND ADVISORY IN EFFECT FROM 2 PM THIS AFTERNOON TO 10 PM PDT
THIS EVENING...

THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED A WIND
ADVISORY...WHICH IS IN EFFECT FROM 2 PM THIS AFTERNOON TO 10 PM
PDT THIS EVENING.

* AFFECTED AREA...IMPERIAL COUNTY INCLUDING EL CENTRO AND MOUNTAIN
  PASSES ALONG I-8.

* TIMING...THIS AFTERNOON THROUGH THIS EVENING.

* WINDS...AS HIGH AS 30 MPH WITH GUSTS TO 40 MPH.

* IMPACTS...STRONG GUSTS WILL CREATE HAZARDOUS CROSSWINDS AND THE
  POTENTIAL FOR LOCALLY REDUCED VISIBILITIES DUE TO BLOWING DUST AND
  SAND. TRAVEL ALONG NORTH TO SOUTH ORIENTED ROADWAYS AND THROUGH
  AREA MOUNTAIN PASSES AND GAPS MAY BE DIFFICULT AT TIMES...ESPECIALLY
  IN THE HIGHER ELEVATIONS ALONG THE I-8 CORRIDOR.

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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Fig A-5: A wind advisory issued by the NWS Phoenix office at 1:47am PST on May 21, 2015 predicted winds of 15 to 25 mph with gusts reaching 40 mph by the evening. Blowing dust and sand was also expected. Source: Iowa Environmental Mesonet; https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201505210947

FIGURE A-6
NWS PHOENIX OFFICE AREA FORECAST DISCUSSION

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617
FXUS65 KPSR 210948
AFDPSR

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
248 AM MST THU MAY 21 2015

.SYNOPSIS...
A SERIES OF UPPER LEVEL LOW PRESSURE SYSTEMS WILL AFFECT THE REGION
THROUGH THE END OF THE WEEK...BUT OVERALL DRY CONDITIONS WILL
PREVAIL FOR THE LOWER DESERTS. THIS PATTERN WILL BRING IN COOLER
TEMPERATURES THROUGH SATURDAY...INCREASED CLOUD COVER...AND BREEZY
TO LOCALLY WINDY CONDITIONS FOR TODAY AND FRIDAY. DRY CONDITIONS AND
A WARMING TREND ARE EXPECTED THROUGH THE MIDDLE OF NEXT WEEK...BUT
TEMPERATURES SHOULD STILL REMAIN BELOW SEASONAL NORMALS.

&&

.DISCUSSION...
THE ABNORMAL PATTERN OF DEEP WESTERN U.S. TROUGHS CONTINUES AS
ANOTHER OFF THE WEST COAST WILL AFFECT THE DESERT SOUTHWEST OVER THE
NEXT COUPLE DAYS. WITHIN THE TROUGH THERE ARE TWO DISTINCT
CIRCULATIONS...THE WEAKER OF THE TWO IS CURRENTLY MOVING INTO
SOUTHERN CALIFORNIA AND THE OTHER CLOSER TO THE LOW CENTER IS STILL
WELL OFF THE NORTHERN CALIFORNIA COAST. THE SHORTWAVE MOVING INTO
SOUTHERN CALIFORNIA SHOWS UP WELL ON SATELLITE IMAGERY WITH A WELL
DEFINED BAROCLINIC LEAF STRUCTURE FROM NORTHERN BAJA INTO NORTHERN
ARIZONA. HEIGHT PACKING OVER THE DESERT SOUTHWEST IS PRETTY TIGHT AND
WILL REMAIN THAT WAY FOR THE REST OF TODAY. THIS WILL ALLOW FOR A
QUITE BREEZY DAY MAINLY FROM LATE MORNING THROUGH EARLY EVENING. THE
STRONGEST WINDS WILL BE ACROSS IMPERIAL COUNTY WHERE WIND GUSTS LATE
THIS AFTERNOON WILL APPROACH 40 MPH AND THUS PROMPTING A WIND
ADVISORY FOR LATE THIS AFTERNOON INTO THE EVENING HOURS. TEMPERATURES
TODAY WILL COOL SLIGHTLY FROM YESTERDAY WITH HIGHS REACHING NEAR 85
DEGREES ACROSS THE SOUTHEAST CALIFORNIA DESERTS AND UPPER 80S ACROSS
THE SOUTH-CENTRAL ARIZONA DESERTS.

ATTENTION THEN TURNS TOWARD THE MAIN SHORTWAVE WHICH IS FORECAST TO
QUICKLY DIVE SOUTHEASTWARD TODAY INTO TONIGHT AND REACH SOUTHEAST
CALIFORNIA AROUND 12Z FRIDAY. STILL LOOKS LIKE MOISTURE WILL BE
FAIRLY LIMITED WITH PRECIPITABLE WATER VALUES OF AROUND A HALF AN
INCH FOR FRIDAY OVER SOUTH-CENTRAL ARIZONA AND CLOSER TO TWO THIRDS
OF AN INCH IN THE LOWER COLORADO RIVER AREA. AS THE PV ANOMALY SWINGS
THROUGH...WE SHOULD HAVE ENOUGH VERTICAL ASCENT AND MOISTURE TO
GENERATE SOME ISOLATED SHOWERS DURING THE DAYTIME HOURS FRIDAY ACROSS
JTNP AND HIGHER TERRAIN AREAS OF LA PAZ AND MARICOPA COUNTIES. THERE
WILL ALSO BE THE POSSIBILITY OF A FEW THUNDERSTORMS...BUT INSTABILITY
WILL BE PRETTY MEAGER OVER OUR CWA...BETTER CHANCES FOR
THUNDERSTORMS WILL EXIST OVER WEST-CENTRAL AND NORTHERN ARIZONA
FRIDAY AFTERNOON. THE UPPER LOW WILL USHER IN SOME FAIRLY COOL AIR
ALOFT FOR FRIDAY AND WHEN COMBINED WITH PERIODIC CLOUDS THROUGHOUT
THE DAY...HIGH TEMPERATURES WILL ONLY REACH INTO THE MID TO UPPER 70S
IN OUR WESTERN AREAS TO THE LOWER 80S IN THE PHOENIX AREA.

THE BROAD UPPER TROUGH WILL PERSIST INTO THE WEEKEND...BUT SUBSIDENCE
ALOFT WILL TAKE OVER FOR THE MOST PART AS THE MAIN LOW CENTER SHIFTS
INTO THE CENTRAL ROCKIES. THE OPERATIONAL GFS DOES BRING IN A COMPACT
SHORTWAVE TROUGH FOR SUNDAY...BUT FEEL THIS IS OVERLY AGGRESSIVE AND
WILL SIDE WITH THE WEAKER GFS ENSEMBLE AND EUROPEAN SOLUTIONS. THIS
FEATURE WILL LIKELY JUST BRING SOME CLOUDS AND KEEP OUR TEMPERATURES
FROM RISING ANY FASTER. TEMPERATURES WILL DEFINITELY TREND UPWARD
AFTER FRIDAY...BUT STILL EXPECTING BELOW NORMAL TEMPERATURES AT
LEAST THROUGH THE MIDDLE OF NEXT WEEK. OVERALL IT LOOKS LIKE LOWER
90S WILL BE THE RULE ACROSS THE DESERTS STARTING MONDAY. SOME MODEL
DISCREPANCIES ARE NOTED GOING INTO THE MIDDLE OF NEXT WEEK WITH THE
GFS CONTINUING WITH THE WEST COAST TROUGH PATTERN...BUT THE EUROPEAN
LEANS TOWARD MORE OF A ZONAL FLOW PATTERN.

&&

.AVIATION...
SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL... VARIABLE
AMOUNTS OF MAINLY HIGH CLOUDS WILL CONTINUE TO SPREAD ACROSS THE
AREA FROM THE SOUTHWEST THROUGH THURSDAY EVENING...WITH CIGS MOSTLY
AOA 20K FEET. MAY SEE FEW-SCT LOWER CLOUD DECKS BY AFTERNOON
THURSDAY WITH BASES MOSTLY ABOVE 9K FEET. OTHERWISE WINDS WILL FAVOR
NORMAL SPEEDS AND DIRECTIONS NEXT 24 HOURS...TURNING TO THE
SOUTHEAST AFTER 06-08Z THEN VEERING TO SOUTH BY LATE MORNING AND
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Fig A-6: An Area Forecast Discussion issued by the NWS Phoenix office at 1:48am PST on May 21, 2015. Source: Iowa Environmental Mesonet

FIGURE A-7
WIND ADVISORY FOR SAN DIEGO DESERTS

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335
WWUS76 KSGX 211001
NPWSGX

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE SAN DIEGO CA
301 AM PDT THU MAY 21 2015

...STRONG AND GUSTY WINDS IN PARTS OF THE DESERT...

.STRONG ONSHORE FLOW WILL CAUSE STRONG AND GUSTY WINDS TO DEVELOP IN
PARTS OF THE DESERTS THIS AFTERNOON THROUGH TONIGHT. STRONGEST WINDS
WILL OCCUR THROUGH AND EAST OF THE SAN GORGONIO PASS AND IN THE ANZA
BORREGO DESERT. WINDS WILL DECREASE A BIT ON FRIDAY...BUT IT WILL
CONTINUE BREEZY THROUGH THE EVENING.

CAZ062-065-211700-
/O.NEW.KSGX.WI.Y.0021.150521T2100Z-150522T1500Z/
SAN DIEGO COUNTY DESERTS-SAN GORGONIO PASS NEAR BANNING-
301 AM PDT THU MAY 21 2015

...WIND ADVISORY IN EFFECT FROM 2 PM THIS AFTERNOON TO 8 AM PDT
FRIDAY...

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS ISSUED A WIND
ADVISORY...WHICH IS IN EFFECT FROM 2 PM THIS AFTERNOON TO 8 AM
PDT FRIDAY.

* WINDS...WESTERLY 25 TO 35 MPH WITH GUSTS TO 50 MPH. ISOLATED TOP
  GUSTS TO 60 MPH THROUGH AND JUST EAST OF SAN GORGONIO PASS.

* VISIBILITY...LOCALLY REDUCED TO 2 MILES OR LESS IN BLOWING DUST
  OR SAND.

* IMPACTS...DIFFICULT DRIVING CONDITIONS PARTICULARLY ALONG
  INTERSTATE 10 NORTH OF PALM SPRINGS.

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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Fig A-7: An urgent weather message issued by the NWS San Diego office at 2:01am PST on May 21, 2015 included a wind advisory for affected areas including the San Diego County deserts adjacent to Imperial County. Westerly winds up to 35 mph were expected with gusts up to 50 mph. The winds on the desert slopes and desert floor played a critical role in lofting and transporting dust downstream into the Imperial Valley. Blowing dust and sand was also expected. Source: Iowa Environmental Mesonet; https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201505211001

FIGURE A-8
NWS PHOENIX OFFICE HAZARDOUS WEATHER OUTLOOK

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r
453
FLUS45 KPSR 211109
HWOPSR

HAZARDOUS WEATHER OUTLOOK
NATIONAL WEATHER SERVICE PHOENIX AZ
409 AM MST THU MAY 21 2015

CAZ033-220500-
IMPERIAL COUNTY-
409 AM MST THU MAY 21 2015

...WIND ADVISORY IN EFFECT FROM 2 PM THIS AFTERNOON TO 10 PM PDT
THIS EVENING...

THIS HAZARDOUS WEATHER OUTLOOK IS FOR EXTREME SOUTHEAST CALIFORNIA.

.DAY ONE...TODAY AND TONIGHT.

PLEASE LISTEN TO NOAA WEATHER RADIO OR GO TO WEATHER.GOV ON THE
INTERNET FOR MORE INFORMATION ABOUT THE FOLLOWING HAZARDS.

   WIND ADVISORY.

STRONG GUSTY WESTERLY WINDS ARE EXPECTED TO DEVELOP DURING THE
AFTERNOON HOURS TODAY ACROSS FAR SOUTHEAST CALIFORNIA...AND THEY
WILL CONTINUE THROUGH THE EVENING HOURS TONIGHT. PEAK WIND GUSTS WILL
LIKELY HIT 40 MPH AT TIMES...ESPECIALLY OVER THE WESTERN HALF OF
IMPERIAL COUNTY. GUSTY WINDS MAY PRODUCE PATCHY BLOWING DUST AND SAND
WHICH COULD REDUCE VISIBILITY AND CAUSE HAZARDOUS DRIVING CONDITIONS.

.DAYS TWO THROUGH SEVEN...FRIDAY THROUGH WEDNESDAY.

NO HAZARDOUS WEATHER IS EXPECTED AT THIS TIME.

.SPOTTER INFORMATION STATEMENT...

SPOTTER ACTIVATION IS NOT EXPECTED AT THIS TIME.

$$

NATIONAL WEATHER SERVICE PHOENIX IS ON THE INTERNET AT

WEATHER.GOV/PHOENIX
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Fig A-8: A Hazardous Weather Outlook issued May 21, 2015 at 3:09am PST including a wind advisory for the Imperial County. Source: Iowa Environmental Mesonet

FIGURE A-9
NWS SAN DIEGO OFFICE URGENT WEATHER MESSAGE

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r
549
WWUS76 KSGX 211810
NPWSGX

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE SAN DIEGO CA
1110 AM PDT THU MAY 21 2015

...STRONG AND GUSTY WINDS IN PARTS OF THE DESERT...

.STRONG ONSHORE FLOW WILL CAUSE STRONG AND GUSTY WINDS TO DEVELOP
IN PARTS OF THE DESERTS THIS AFTERNOON THROUGH TONIGHT. STRONGEST
WINDS WILL OCCUR THROUGH AND EAST OF THE SAN GORGONIO PASS AND IN
THE ANZA BORREGO DESERT. WINDS WILL DECREASE A BIT ON FRIDAY...
BUT IT WILL CONTINUE BREEZY THROUGH FRIDAY EVENING.

CAZ062-065-220500-
/O.CON.KSGX.WI.Y.0021.150521T2100Z-150522T1500Z/
SAN DIEGO COUNTY DESERTS-SAN GORGONIO PASS NEAR BANNING-
1110 AM PDT THU MAY 21 2015

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

* WINDS...WESTERLY 25 TO 35 MPH WITH GUSTS TO 50 MPH. ISOLATED
  TOP GUSTS TO 60 MPH THROUGH AND JUST EAST OF SAN GORGONIO
  PASS.

* VISIBILITY...LOCALLY REDUCED TO 2 MILES OR LESS IN BLOWING
  DUST OR SAND.

* IMPACTS...DIFFICULT DRIVING CONDITIONS PARTICULARLY ALONG
  INTERSTATE 10 NORTH OF PALM SPRINGS.

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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Fig A-9: An Urgent Weather Message issued at 10:10am PST on May 21, 2015 containing a wind advisory for the San Diego County Desert area. Source: Iowa Environmental Mesonet

FIGURE A-10
NWS PHOENIX OFFICE AREA FORECAST DISCUSSION

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r
094
FXUS65 KPSR 212136
AFDPSR

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
235 PM MST THU MAY 21 2015

.SYNOPSIS...
A SERIES OF UPPER LEVEL LOW PRESSURE SYSTEMS WILL AFFECT THE REGION
THROUGH THE END OF THE WEEK...BUT OVERALL DRY CONDITIONS WILL
PREVAIL FOR THE LOWER DESERTS. THIS PATTERN WILL BRING IN COOLER
TEMPERATURES THROUGH SATURDAY...INCREASED CLOUD COVER...AND BREEZY
TO LOCALLY WINDY CONDITIONS FOR TODAY AND FRIDAY. DRY CONDITIONS AND
A WARMING TREND ARE EXPECTED THROUGH THE MIDDLE OF NEXT WEEK...BUT
TEMPERATURES SHOULD STILL REMAIN BELOW SEASONAL NORMALS.

&&

.DISCUSSION...
UPPER LEVEL LOW IS STILL OFF THE CALIFORNIA COAST THIS AFTERNOON...
SATELLITE IMAGERY AND LIGHTNING DATA SHOW THUNDERSTORMS OVER THE
SIERRA NEVADA AND INTO THE NORTHERN GREAT BASIN. THE CENTER OF THE
LOW IS STILL PROGGED TO CONSOLIDATE AND SWING INLAND OVER SOUTHERN
CALIFORNIA LATER TONIGHT INTO FRIDAY MORNING. HIGH AND MID LEVEL
CLOUDS WILL CONTINUE TO STREAM ACROSS THE DESERT SOUTHWEST...THE
CLOUDINESS ALONG WITH A SLIGHT CHANCE OF PRECIPITATION PERSISTING
FOR PORTIONS OF OUR FORECAST AREA LATE TONIGHT THROUGH FRIDAY.

THE MAIN IMPACT WITH THIS WEATHER SYSTEM WILL BE WITH THE WIND.
CURRENTLY...WINDS ARE GUSTING TO AROUND 35 MPH NEAR EL CENTRO
CALIFORNIA. THE WINDS WILL STRENGTHEN MORE LATER THIS AFTERNOON AND
EVENING...WITH GUSTS IN EXCESS OF 40 MPH FOR PERIODS OF TIME. A WIND
ADVISORY IS CURRENTLY IN EFFECT TO HIGHLIGHT THE HAZARD OF STRONG
WINDS AND BLOWING DUST/SAND.

SO FAR...THERE IS NOT A GREAT DEAL OF MOISTURE EXPECTED WITH THIS
LOW AS IS MOVES INLAND AND BEGINS TO TRACK TO THE NORTHEAST. STILL
LOOKS LIKE MOISTURE WILL BE FAIRLY LIMITED WITH PRECIPITABLE WATER
VALUES OF AROUND A HALF AN INCH DURING THE DAY FRIDAY OVER SOUTH
CENTRAL ARIZONA...AND CLOSER TO TWO THIRDS OF AN INCH OVER THE LOWER
COLORADO RIVER AREA. AS THE LOW SWINGS THROUGH...WE SHOULD HAVE
ENOUGH VERTICAL ASCENT AND MOISTURE TO GENERATE SOME ISOLATED
SHOWERS DURING THE DAYTIME HOURS FRIDAY ACROSS JTNP AND HIGHER
TERRAIN AREAS OF LA PAZ AND MARICOPA COUNTIES.

THERE WILL ALSO BE THE POSSIBILITY OF A FEW THUNDERSTORMS...BUT
INSTABILITY WILL BE PRETTY MEAGER OVER OUR CWA...BETTER CHANCES FOR
THUNDERSTORMS WILL EXIST OVER WEST-CENTRAL AND NORTHERN ARIZONA
FRIDAY AFTERNOON. THE UPPER LOW WILL USHER IN SOME FAIRLY COOL AIR
ALOFT FOR FRIDAY AND WHEN COMBINED WITH PERIODIC CLOUDS THROUGHOUT
THE DAY...HIGH TEMPERATURES WILL ONLY REACH INTO THE MID TO UPPER
70S IN OUR WESTERN AREAS TO THE LOWER 80S IN THE PHOENIX AREA.

THE BROAD UPPER TROUGH WILL PERSIST INTO THE WEEKEND...BUT SUBSIDENCE
ALOFT WILL TAKE OVER FOR THE MOST PART AS THE MAIN LOW CENTER SHIFTS
INTO THE CENTRAL ROCKIES. THE OPERATIONAL GFS DOES BRING IN A COMPACT
SHORTWAVE TROUGH FOR SUNDAY...BUT FEEL THIS IS OVERLY AGGRESSIVE AND
WILL SIDE WITH THE WEAKER GFS ENSEMBLE AND EUROPEAN SOLUTIONS. THIS
FEATURE WILL LIKELY JUST BRING SOME CLOUDS AND KEEP OUR TEMPERATURES
FROM RISING ANY FASTER.

TEMPERATURES WILL DEFINITELY TREND UPWARD AFTER FRIDAY...BUT STILL
EXPECTING BELOW NORMAL TEMPERATURES AT LEAST THROUGH THE MIDDLE OF
NEXT WEEK. OVERALL IT LOOKS LIKE LOWER 90S WILL BE THE RULE ACROSS
THE DESERTS STARTING MONDAY. SOME MODEL DISCREPANCIES ARE NOTED
GOING INTO THE MIDDLE OF NEXT WEEK WITH THE GFS CONTINUING WITH THE
WEST COAST TROUGH PATTERN...BUT THE EUROPEAN LEANS TOWARD MORE OF A
ZONAL FLOW PATTERN.

&&

.AVIATION...
SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...
OCCASIONALLY GUSTY SOUTHERLY CROSS WINDS WILL GRADUALLY VEER TO A
SOUTHWEST TO WEST DIRECTION BY LATE AFTERNOON...WITH GUSTS REACHING
TO AROUND 20-25KT AND WEAKENING SOMEWHAT AFTER SUNSET. TIMING ON THE
RETURN BACK TO A SOUTHEAST DIRECTION OVERNIGHT HOLDS LIMITED
CONFIDENCE. OTHERWISE...PERIODS OF THICKER MID/HIGH CLOUDS WILL
```

Fig A-10: An Area Forecast Discussion issued at 1:35pm PST on May 21, 2015. Source: Iowa Environmental Mesonet

FIGURE A-11
NWS SAN DIEGO OFFICE URGENT WEATHER MESSAGE

```
092
WWUS76 KSGX 221758
NPWSGX

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE SAN DIEGO CA
1058 AM PDT FRI MAY 22 2015

...STRONG AND GUSTY WINDS IN PARTS OF THE DESERT THROUGH THIS
EVENING...

.STRONG GUSTY WINDS WILL CONTINUE IN THE DESERTS THROUGH THIS
EVENING. THE STRONGEST WINDS WILL OCCUR THROUGH AND EAST OF SAN
GORGONIO PASS AND IN THE ANZA BORREGO DESERT.

CAZ062-065-230400-
/O.CON.KSGX.WI.Y.0021.000000T0000Z-150523T0400Z/
SAN DIEGO COUNTY DESERTS-SAN GORGONIO PASS NEAR BANNING-
1058 AM PDT FRI MAY 22 2015

...WIND ADVISORY REMAINS IN EFFECT UNTIL 9 PM PDT THIS EVENING...

* WINDS...WESTERLY 25 TO 35 MPH WITH GUSTS TO 50 MPH. ISOLATED
  TOP GUSTS TO 60 MPH THROUGH AND JUST EAST OF SAN GORGONIO
  PASS.

* VISIBILITY...LOCALLY REDUCED TO 2 MILES OR LESS IN BLOWING
  DUST OR SAND.

* IMPACTS...DIFFICULT DRIVING CONDITIONS PARTICULARLY ALONG
  INTERSTATE 10 NORTH OF PALM SPRINGS.

* OUTLOOK...STRONG GUSTY WINDS ARE POSSIBLE AGAIN SATURDAY
  AFTERNOON AND EVENING.

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.

&&

$$

MAXWELL
```

Fig A-11: An Urgent Weather Message issued at 9:58am PST on May 22, 2015 containing a wind advisory for the San Diego County Desert area. Source: Iowa Environmental Mesonet

FIGURE A-12
BLOWING DUST IDENTIFIED OVER SOUTHERN CALIFORNIA

Friday, May 22, 2015

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 0245Z May 23, 2015

Canada/US Northern Plains & Great Lakes:
Large light to moderate dense smoke extends from eastern Alaska southeast across central Canada, over the U.S. northern Plains and Upper Midwest, and Great Lakes region in evening satellite imagery. Some embedded areas of heavy density smoke is observed across portions of eastern Alberta and western Saskatchewan. Large wildfires situated along the Alberta/Saskatchewan border are producing heavy smoke. Pyrocumulus clouds have also developed with these intense fires. The overall area of smoke is associated with several large wildfires located in northern Yukon, northern British Columbia, Saskatchewan, Alberta and agricultural fires across the U.S. Northern Plains.

Western Gulf of Mexico:
An area of light-density remnant smoke continues to drift slowly northwest from the Yucatan Peninsula and Western Gulf of Mexico this evening. This area of smoke is mostly a result of seasonal agricultural burning. There also has been a multi-day wildfire located along the northern Yucatan Peninsula that has been producing moderate smoke.

Eastern Gulf of Mexico:
Small area of light smoke was seen tracking just west of Cuba and is believed to be associated with several fires across western Cuba.

Southern California/Southern Arizona:
Blowing dust/sand event has developed once again this evening due to strong winds across southern California. This area of dust/sand has expanded eastward into southwestern Arizona this evening. A second area of blowing dust/sand is seen originating from southeastern Arizona and extends northeast.

Fig A-12: Excerpts from NOAA's Satellite Services Division Smoke Text Product identified blowing dust/sand over southern California on both May 21, 2015 and May 22, 2015. Source:
http://www.ssd.noaa.gov/PS/FIRE/DATA/SMOKE/2015/2015E230354.html

FIGURE A-13
GUSTY WINDS IMPACT BANNING

Brace Yourself for Gusty Winds Banning

Strong gusty winds are expected to develop along the San Gorgonio Pass near Banning Thursday afternoon through Friday morning.

By Deanne Goodman, Patch Staff | May 21, 2015 4:19 pm ET

By City News Service, image via Shutterstock

Strong gusty winds are expected to develop along the San Gorgonio Pass near Banning Thursday afternoon.

A National Weather Service wind advisory is scheduled to take effect at the pass at 2 p.m. and extend until 8 a.m. Friday. Westerly winds of 25 to 35 miles per hour are forecast for the area along with gusts that may reach 60 mph.

"Strong onshore flow will cause strong and gusty winds to develop in parts of the deserts this afternoon through tonight," according to the weather service. "Strongest winds will occur through and east of the San Gorgonio Pass and in the Anza-Borrego Desert."

The Coachella Valley was not included in the advisory, but forecasters said winds of around 30 mph were expected there this afternoon and could reach 40 mph tonight. Desert Hot Springs in particular was expected to be windy.

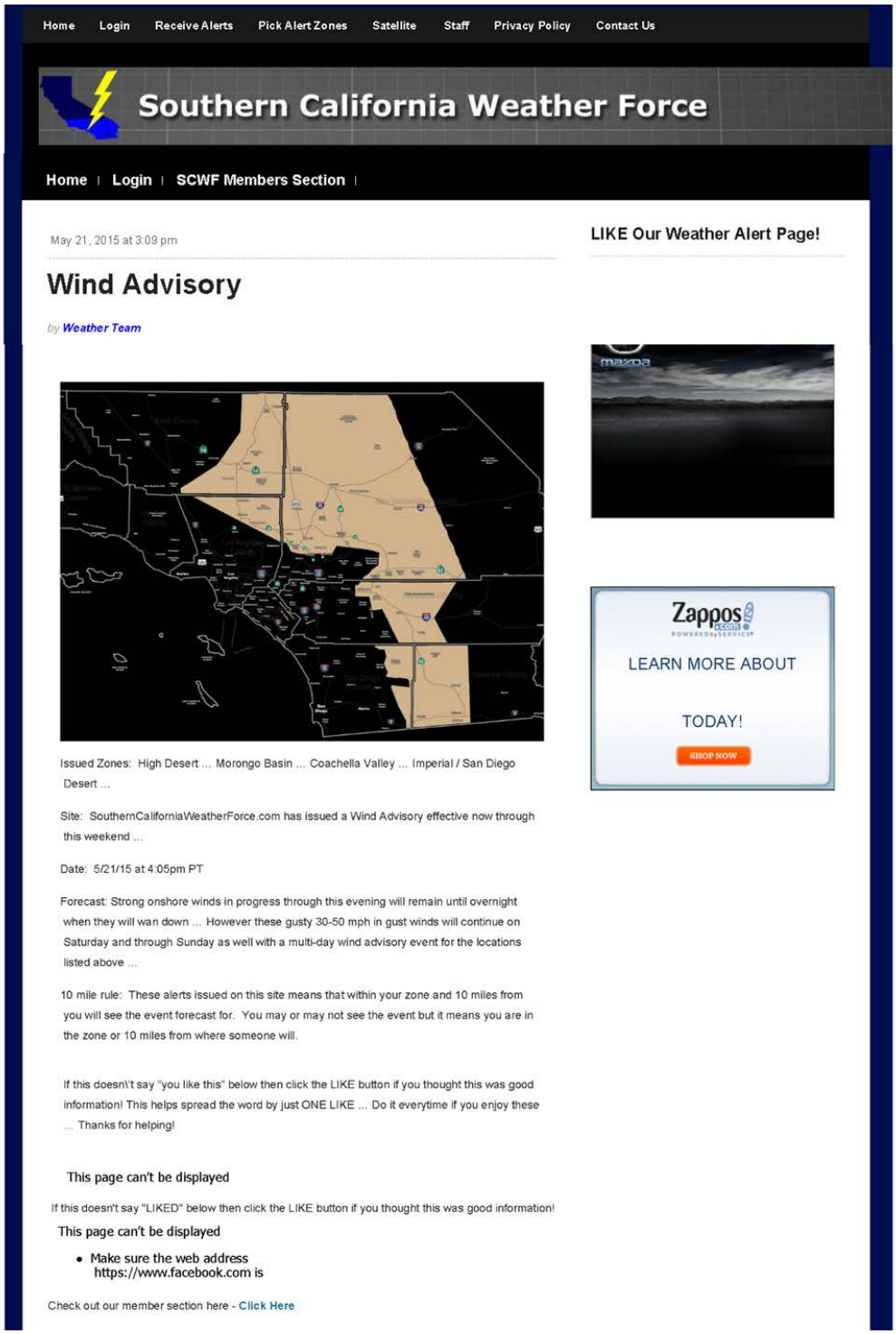
Subscribe

The wind could cause hazardous driving conditions, especially along Interstate 10 north of Palm Springs, the NWS said. Visibility along some desert roadways could be reduced by blowing sand and dust. Drivers were advised to use extra caution.

More from Banning-Beaumont Patch

Fig A-13: An article describing the wind conditions for the Palm Springs area as explained in the NWS wind advisory**.** Source: patch.com

FIGURE A-14
SOUTHERN CALIFORNIA WEATHER FORCE WIND ADVISORY



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Southern California Weather Force

Home | Login | SCWF Members Section |

May 21, 2015 at 3:09 pm

Wind Advisory

by *Weather Team*

Issued Zones: High Desert ... Morongo Basin ... Coachella Valley ... Imperial / San Diego Desert ...

Site: SouthernCaliforniaWeatherForce.com has issued a Wind Advisory effective now through this weekend ...

Date: 5/21/15 at 4:05pm PT

Forecast: Strong onshore winds in progress through this evening will remain until overnight when they will wan down ... However these gusty 30-50 mph in gust winds will continue on Saturday and through Sunday as well with a multi-day wind advisory event for the locations listed above ...

10 mile rule: These alerts issued on this site means that within your zone and 10 miles from you will see the event forecast for. You may or may not see the event but it means you are in the zone or 10 miles from where someone will.

If this doesn\'t say "you like this" below then click the LIKE button if you thought this was good information! This helps spread the word by just ONE LIKE ... Do it everytime if you enjoy these ... Thanks for helping!

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Check out our member section here - Click Here

LIKE Our Weather Alert Page!

Fig A-14: An article describing the wind conditions for the Imperial County desert area as explained in the NWS wind advisory. Source: http://www.southerncaliforniaweatherforce.com/2015/05/21/wind-advisory-15

FIGURE A-15
STRONG WINDS IMPACT SAN DIEGO COUNTY DESERTS

KPBS™ Listen Watch Schedules Programs Give
News Arts & Culture Living Family Events

Strong Winds Expected In San Diego County Deserts

Thursday, May 21, 2015
By City News Service

Kevin Baird / Flickr

Above: Purple and yellow flowers bloom in the Anza-Borrego Desert, March 16, 2008.

Strong gusty winds are expected to develop in the deserts of San Diego County Thursday afternoon.

A National Weather Service wind advisory for the deserts is scheduled to take effect at 2 p.m. and extend until 8 a.m. Friday. Westerly winds of 25 to 35 miles per hour are forecast for the area along with gusts that may reach 50 mph.

"Strong onshore flow will cause strong and gusty winds to develop in parts of the deserts this afternoon through tonight," according to the weather service. "Strongest winds will occur through and east of the San Gorgonio Pass and in the Anza-Borrego Desert."

The wind could cause hazardous driving conditions, especially for motorists in high profile vehicles, the weather service said. Visibility along some desert roadways could be reduced by blowing sand and dust. Drivers were advised to use extra caution.

Fig A-15: The NWS issued a wind advisory for deserts in San Diego County from 2:00pm May 21, 2015 and lasting until 8:00pm on May 22, 2015. Westerly winds of 25 to 35 mph were expected, with gusts up to 50 mph. Incidents of blowing sand was also expected. These westerly winds blowing across eastern San Diego County also affected Imperial Valley, as they swept over the source area. Source: KPBS television station, San Diego

FIGURE A-16
STRONG WINDS FOR COACHELLA VALLEY

r.desertsun.com/story/weather/2015/05/21/strong-winds-chance-of-rain-coachella-valley/27709183/[3/22/2016 4:40:48 PM]

Fig A-16: The strong winds that were predicted in the Coachella Valley also affected the Imperial Valley. Source: The Desert Sun

FIGURE A-17
AIR QUALITY FORECAST MAY 21, 2015

Imperial Valley

Pollutant	Wed 05/20	Thu 05/21	Fri 05/22	Sat 05/23	Sun 05/24	Mon 05/25	Tue 05/26
O3	64	44	43	64	74	84	90
PM2.5	41	29	33	42	46	50	46
PM10	54	98	93	46	51	42	39

Discussion

Today and tomorrow, a low-pressure system moving over southern California will generate breezy westerly winds in the Imperial Valley, helping to disperse pollutants. However, these winds will also lead to blowing dust; therefore, PM10 levels will be high-Moderate on both days.

Issued 9:17 AM on Thursday, May 21, 2015

FIGURE A-18
AIR QUALITY FORECAST MAY 22, 2015

Imperial Valley

Pollutant	Thu 05/21	Fri 05/22	Sat 05/23	Sun 05/24	Mon 05/25	Tue 05/26	Wed 05/27
O3	43	42	64	71	90	93	97
PM2.5	45	38	42	42	46	50	46
PM10	136	111	46	53	42	42	42

Discussion

Today, a low-pressure system over southern California will generate breezy westerly winds in the Imperial Valley, helping to disperse pollutants. However, these winds will also lead to blowing dust; therefore, PM10 levels will be Unhealthy for Sensitive Groups. Tomorrow, sunny skies and afternoon temperatures in the low-80s will enhance ozone formation in the Imperial Valley. Therefore, despite moderate westerly winds becoming gusty in the late afternoon and helping to disperse pollutants, ozone levels will be Moderate.

Issued 9:29 AM on Friday, May 22, 2015

Fig A-17 & A-18: Air Quality Forecasts Alerts for the Imperial Valley confirm the presence of a strong low-pressure system was responsible for creating the powerful westerly winds that affected southeastern California on May 21, 2015 and May 22, 2015. The notices warned of incidences of blowing dust

FIGURE A-19
AIR QUALITY ALERT

Imperial Valley Air Quality Alert

Brawley - 220 Main Street

Thursday, May 21 - 11:00 PM
PM10 (24-hr average) AQI reached 139 - Unhealthy for Sensitive Groups

PM10 AQI 101-150 People with respiratory or heart disease, the elderly, and children are the groups most at risk, especially when they are physically active. There is an increased likelihood of respiratory symptoms in sensitive individuals, and aggravation of heart or lung disease and premature mortality in persons with cardiopulmonary disease and the elderly. U.S. EPA cautions that "people with heart or lung disease, older adults, and children should reduce prolonged or heavy exertion." 'Prolonged' generally means four or more hours with short rest periods. 'Heavy exertion' is that which would increase the resting breathing rate four fold or greater. You can reduce exposure to particulate material by: - Reducing the intensity and duration of your outdoor activities - Postponing outdoor activities to days when particulate levels are lower

Current Maximum AQI for Other Imperial Valley Cities

Calexico - Ethel Street: Moderate (PM2.5)

El Centro - 9th Street: Good (Ozone)

Niland - English Road: Unhealthy for Sensitive Groups (PM10)

This notification was issued by the Imperial Valley Air Pollu

FIGURE A-20
AIR QUALITY ALERT

Imperial Valley Air Quality Alert

Brawley - 220 Main Street

Friday, May 22 - 12:00 PM
PM10 (24-hr average) AQI reached 152 - Unhealthy

PM10 AQI 151-200 People with respiratory or heart disease, the elderly, and children are the groups most at risk, especially when they are physically active. Persons with cardiopulmonary disease and the elderly may experience increased aggravation of heart or lung disease and premature mortality. The general population may experience increased respiratory effects. U.S. EPA cautions that "people with heart or lung disease, older adults, and children should avoid prolonged or heavy exertion. Everyone else should reduce prolonged or heavy exertion." 'Prolonged' generally means four or more hours with short rest periods. 'Heavy exertion' is that which would increase the resting breathing rate four fold or greater. You can reduce exposure to particulate material by: - Reducing the intensity and duration of your outdoor activities - Postponing outdoor activities to days when particulate levels are lower

Current Maximum AQI for Other Imperial Valley Cities

Calexico - Ethel Street: Good (Ozone)

El Centro - 9th Street: Good (Ozone)

Niland - English Road: Unhealthy for Sensitive Groups (PM10)

This notification was iss

Fig A-19 & A-20: Air Quality Alerts for Brawley were issued starting May 21, 2015. By May 22, 2015, AQI had reached "Unhealthy" levels in the Brawley area

FIGURE A-21
IMPERIAL COUNTY ISSUED NO BURN DAY ON MAY 21, 2015

Imperial County Air Pollution Control District
Daily Weather and Ag. Burning Information

Date: May 21, 2015

Yesterday's Weather Observations at Imperial Airport (ASOS) FAA/NWS

LOCAL TIME	TEMP °F	WINDS MILES PER HOUR	VISIBILITY MILES
7 AM	65	CALM	10
8 AM	68	CALM	10
9 AM	76	CALM	10
10 AM	77	CALM	10
11 AM	81	VRBL 6	10
NOON	83	VRBL-3	10
1 PM	85	SW-10	10
2 PM	87	WSW-12	10
3 PM	88	NNE-10	10
4 PM	88	VRBL-7G20	10
5 PM	89	N-3	10
6 PM	87	WSW-12	10
7 PM	81	W-14	10
Max. Temperature yesterday was 89 degrees			

Today's Mt. Signal Visibility at 7:30 AM Clear NKX 12Z 500 MB Height _____
1Y7 12Z 500 MB Height _____

Forecasts
High Today 78-83

	Local Forecast (Issued 8 AM Local)		Computer Forecast (RUC 40KM 12Z)	
Est. Time Mixing Height reaches 3000 feet	-		9:00 am	
Forecast of Maximum Mixing Height	-	feet	6,930	feet
Forecast for Morning surface winds	W 15-25	mph	W 15-25	mph
Forecast for afternoon surface winds	W 15-25	mph	W 15-25	mph
Forecast for evening surface winds	W 15-25	mph		
Forecast 10 AM - 3 PM transport winds	W 15-25	mph		

Comments/Complaints: GUSTS UP TO 40 MPH IN THE AFTERNOON.

Burn Hours _____ ARB No Burn Day _____ District called No Burn Day X
Total actually burned today _____ acres Crops burned _____

IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT 2011 Int FG

Fig A-21: Is a copy of the Imperial County Air Pollution Control District official record of the conditions, as they existed for a determination of a "No Burn" day on May 21, 2015

FIGURE A-22
IMPERIAL COUNTY ISSUED NO BURN DAY ON MAY 22, 2015

Imperial County Air Pollution Control District
Daily Weather and Ag. Burning Information

Date: Friday, May 22, 2015

Yesterday's Weather Observations at Imperial Airport (ASOS) FAA/NWS

LOCAL TIME	TEMP °F	WINDS MILES PER HOUR	VISIBILITY MILES
7 AM	65	W 16/G23	10
8 AM	66	W 17/G23	10
9 AM	71	W 20	10
10 AM	73	W 17/G28	10
11 AM	76	W 21/G30	10
NOON	77	W 18/G28	10
1 PM	78	W 21/G29	10
2 PM	78	W 24/G32	10
3 PM	78	W 26/G38	10
4 PM	78	W 23/G37	10
5 PM	76	W 28/G36	10
6 PM	74	W 28/G38	10
7 PM	71	W 24/G31	10
Max. Temperature yesterday was 78 degrees			

Today's Mt. Signal Visibility at 7:30 AM Hazy NKX 12Z 500 MB Height _____
1Y7 12Z 500 MB Height _____

Forecasts
High Today 73-78

	Local Forecast (Issued 8 AM Local)		Computer Forecast (RUC 40KM 12Z)	
Est. Time Mixing Height reaches 3000 feet			8:00 a.m.	
Forecast of Maximum Mixing Height		feet	8530	feet
Forecast for Morning surface winds	W 15-25	mph	W 15-25	mph
Forecast for afternoon surface winds	W 15-25	mph	W 15-25	mph
Forecast for evening surface winds	W 15-25/G40	mph		
Forecast 10 AM - 3 PM transport winds	W 16-21	mph		

Comments/Complaints: **High winds expected for Imperial County**

Burn Hours _____ ARB No Burn Day _____ District called No Burn Day XX
Total actually burned today _____ acres Crops burned _____
IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT 2011 Int WB

Fig A-22: Is a copy of the Imperial County Air Pollution Control District official record of the conditions, as they existed for a determination of a "No Burn" day on May 22, 2015

FIGURE A-23

Emmanuel

IMPERIAL COUNTY
AIR POLLUTION CONTROL DISTRICT
COMPLAINT # 6873

Date	Time	Initial	Supplemental
5/21/15	9:20	A	

Complainant Name: Anonymous.
Complainant Address:

Phone: N/A

Smoke: | Dust: ✓ | Open Fire: | Ag Related: | Odors: | Other:

Anonymous person called that on Hwy 111/Heber, Heber there is a construction going on and no water truck on site. Also mentioned that the scrubber being used is creating alot of dust.

Statement of Source (Inspector's Report):

Fig A-23: Is a copy of a filed dust complaint made by a resident of Imperial County on May 21, 2015. The basis of the complaint asserted dust emission from construction in Heber California. Follow-up by certified ICAPCD personnel resulted in the issuance of an opacity violation. Mitigation and resolution included the increased frequency of the application of water. Heber and Highway 111 address is located approximately 20 miles, South-Southwest of Brawley (closest monitor)

FIGURE A-24

IMPERIAL COUNTY
AIR POLLUTION CONTROL DISTRICT
COMPLAINT # 6875

Date	Time	Initial	Supplemental
5/22/15	4:55pm	JC	

Complainant Name: Isaac Vargas Apt. Mgr. #14
Complainant Address: 350 Olivette Calle Dr
Brawley CA

Phone: 760-344-7473

Smoke: | Dust: ✓ | Open Fire: | Ag Related: | Odors: | Other:

Caller states City of Brawley Street Sweepers are dumping dirt behind Apt Complex. With the winds is causing a lot of dust. Chavela's Restaurant is also close by.

Statement of Source (Inspector's Report):

Fig A-24: Is a copy of a filed dust complaint made by a resident of Imperial County on May 22, 2015. The complaint asserted illegally dumping of dust related materials by a sweeper behind an apartment complex in Brawley. The follow up investigation by certified ICAPCD personnel found no evidence of dust but forward the complaint to the Environmental Health Department. A notice of violation was not issued

FIGURE A-25
IMPERIAL COUNTY AFFIDAVIT OF 30 PUBLIC NOTICE

AFFIDAVIT OF PUBLICATION
(2015.5 C.C.P.)

STATE OF CALIFORNIA

County of Imperial

I am a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above entitled matter. I am the principal clerk* of the printer of the

Imperial Valley Press

a newspaper of general circulation, printed and published daily in the City of El Centro, County of Imperial and which newspaper has been adjudged a newspaper of genera circulation by the Superior Court of the County of Imperial, State of California, under the date of October 9, 1951, Case Number 26775; that the notice, of which the annexed is a printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

11/19 .

all in the year 2017

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

SIGNATURE

Name of Account: I C AIR POLLUTION CONTROL
Order Number: 11118243
Ad Number: 31335544

* Printer, Foreman of the Printer, or Principal Clerk of the Printer
Date: 20 th day of November, 2017.
at El Centro, California.

This space is for the County Clerk's Filling Stamp:

Proof of Publication of:

NOTICE OF AVAILABILITY
OF THE DEMONSTRATION OF THE OCCURRENCE
OF THREE EXCEPTIONAL EVENTS (EE) FOR
MAY 2015 AND JAN/FEB 2016

The Imperial County Air Pollution Control District (Air District) has prepared three Draft Exceptional Event (EE) Demonstrations, which support the requested exclusion of the measured concentrations at the Brawley, Niland and Westmorland monitors on May 18, 2015, May 21-22, 2015 and January 31-February 1, 2016. (See below).

May 18, 2015
Brawley 24 hr concentration from the Federal Reference Method monitor of 304 ug/m3

May 21-22, 2015
Brawley 24 hr concentration from the Federal Equivalent Method BAM monitor of 225 ug/m3
Niland 24 hr concentration from the Federal Equivalent Method BAM monitor of 171 ug/m3
Brawley 24 hr concentration from the Federal Equivalent Method BAM monitor of 227 ug/m3

January 31-February 1, 2016
Brawley 24 hr concentration from the Federal Reference Method monitor of 218 ug/m3
Brawley 24 hr concentration from the Federal Equivalent Method BAM monitor of 236 ug/m3
Niland 24 hr concentration from the Federal Reference Method monitor of 225 ug/m3
Niland 24 hr concentration from the Federal Equivalent Method BAM monitor of 259 ug/m3
Westmorland 24 hr concentration from the Federal Equivalent Method BAM monitor of 344 ug/m3
Brawley 24 hr concentration from the Federal Equivalent Method BAM monitor of 208 ug/m3

The public and all interested parties are encouraged to review and comment on the Draft EE's for May 18, 2015, May 21-22, 201 and January 31-February 1, 2016. These demonstrations provide the supporting evidence that on the days indicated for 2015 and 2016 the Brawley, Niland and Westmorland monitors were affected by entrained elevated levels of particulate matter of an aerodynamic size less than 10 microns (PM10). West winds, which precede a weather system, entrained PM10 into the region affecting Riverside, Imperial and San Diego counties. The Draft EE Demonstrations provide the scientific justification for the requested exclusions. The Air District is soliciting and accepting comments for 30 days commencing the date of the publication of this notice. The final closing date for submitting comments is December 20, 2017 by close of business.

The Draft EE's for May of 2015 and January/February 2016 are available for download at the Air District website at www.co.imperial.ca.us, under "Air Pollution". To view a hard copy of the Draft EE demonstrations, please visit the Air Pollution Control District office at 150 S. 9th Street, El Centro. Should you have any questions or concerns please feel free to call our office between 8am and 5pm at (442) 265-1800 and ask for Monica N. Soucier.
L584 N19

RECEIVED
NOV 27 2017
AIR POLLUTION
CONTROL DISTRICT

Fig A-25: Is a copy of the Imperial County Air Pollution Control District official record (affidavit) affirming the publication of the notice of availability of the Exceptional Events Demonstration for May 21, 2015 and May 22, 2015. The date for closing comments was December 20, 2017

FIGURE A-26
IMPERIAL COUNTY COMMENTS
REGARDING THE MAY 21, 2015 AND MAY 22, 2015 EE DEMONSTRATIONS

No Comments were received during the 30 day public review period