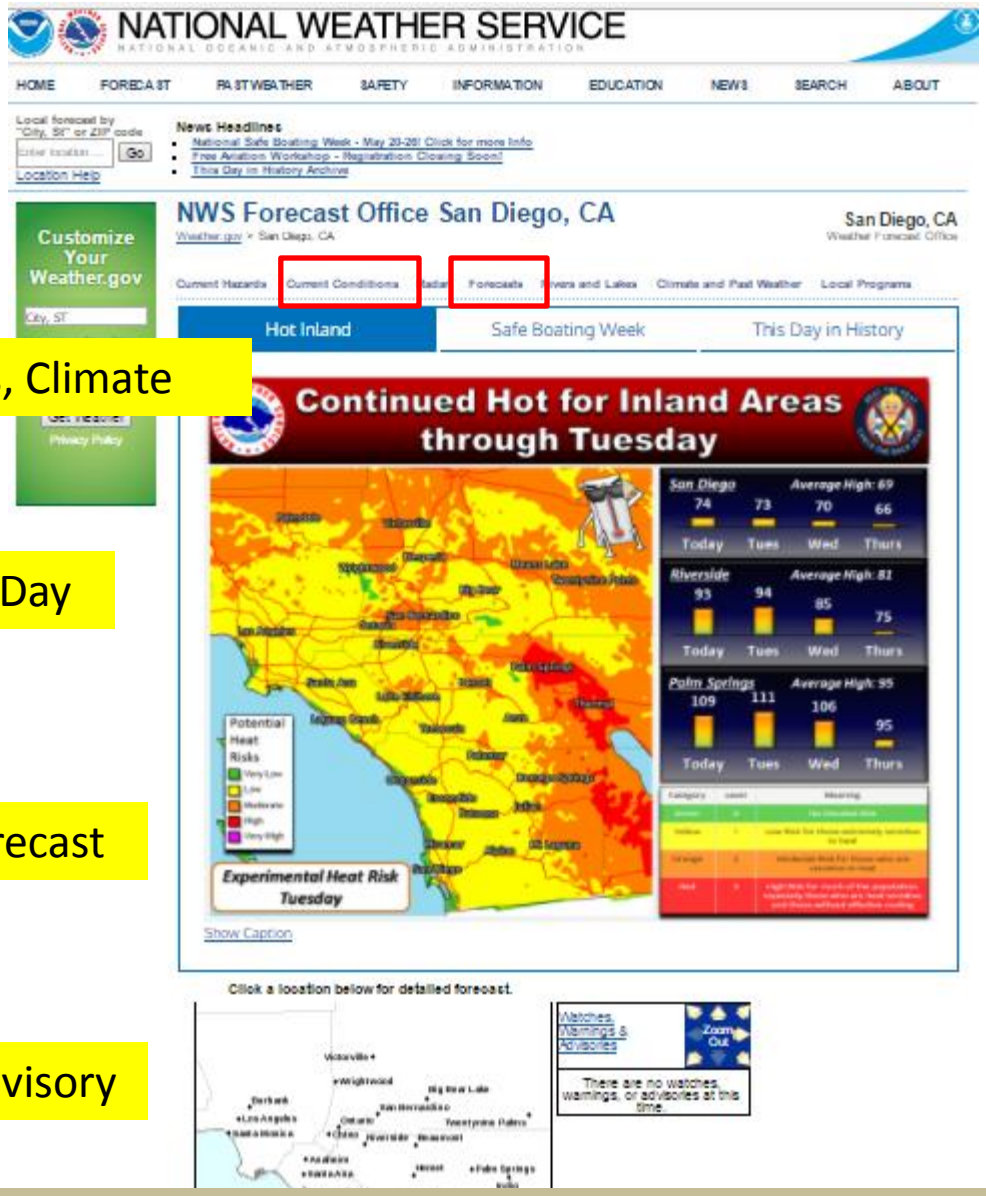
New Look at Weather.gov



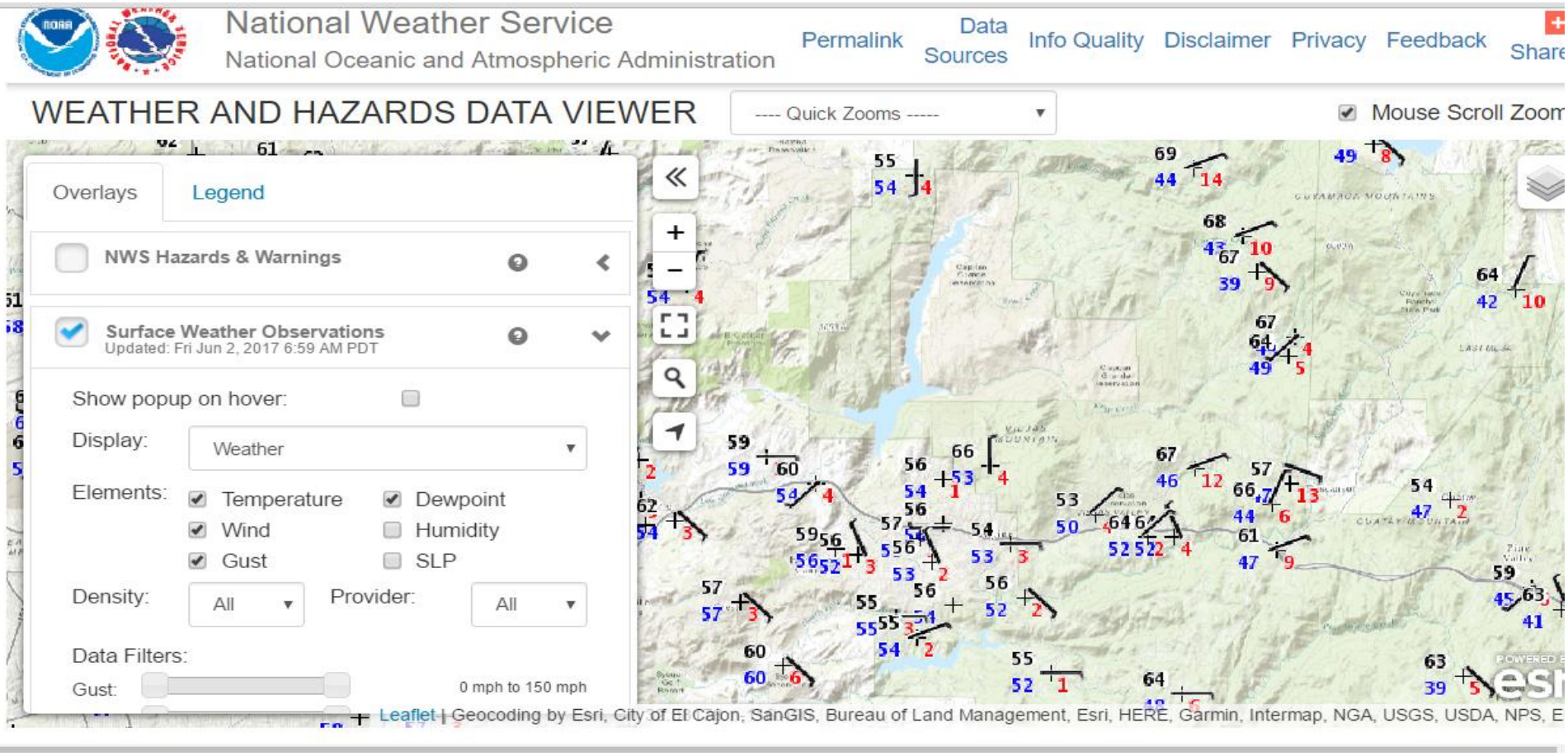
Forecasts, Observations, Climate

Weather Story of Day

Point and Click Forecast

Watch/Warning/Advisory

Weather Observation Map



Point and Click Forecast

JULIAN (JULC1)
Lat: 33.075686°N Lon: 116.592575°W Elev: 4238ft.

NA
53°F
12°C

Humidity	81%
Wind Speed	NA
Barometer	NA
Dewpoint	47°F (8°C)
Visibility	NA
Last update	02 Jun 5:55 am PDT

More Information:
- Local Forecast Office
- More Local Wx
- 3 Day History
- Mobile Weather
- Hourly Weather Forecast

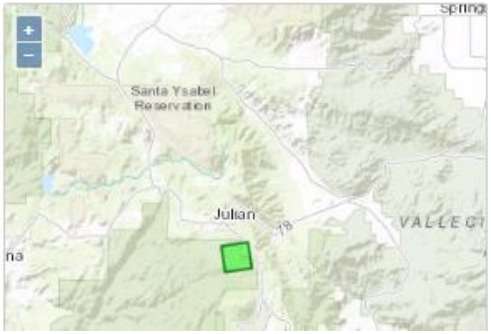
Extended Forecast for
2 Miles SE Julian CA

Today	Tonight	Saturday	Saturday Night	Sunday	Sunday Night	Monday	Monday Night	Tuesday
Sunny	Mostly Clear	Sunny	Mostly Clear	Sunny	Mostly Clear	Sunny	Mostly Clear	Sunny
High: 81 °F	Low: 59 °F	High: 86 °F	Low: 59 °F	High: 84 °F	Low: 59 °F	High: 84 °F	Low: 58 °F	High: 82 °F

Detailed Forecast

Today	Sunny, with a high near 81. East wind 10 to 15 mph, with gusts as high as 25 mph.
Tonight	Mostly clear, with a low around 59. Calm wind becoming north around 5 mph.
Saturday	Sunny, with a high near 86. Southeast wind 5 to 10 mph becoming west in the afternoon.
Saturday Night	Mostly clear, with a low around 59. West wind 5 to 10 mph, with gusts as high as 20 mph.
Sunday	Sunny, with a high near 84. Light and variable wind becoming west 5 to 10 mph in the afternoon. Winds could gust as high as 20 mph.
Sunday Night	Mostly clear, with a low around 59.
Monday	Sunny, with a high near 84.
Monday Night	Mostly clear, with a low around 58.

Topographic
Click Map For Forecast



Point Forecast: Camarillo CA
34.21N 119.03W (Elev. 151 ft)

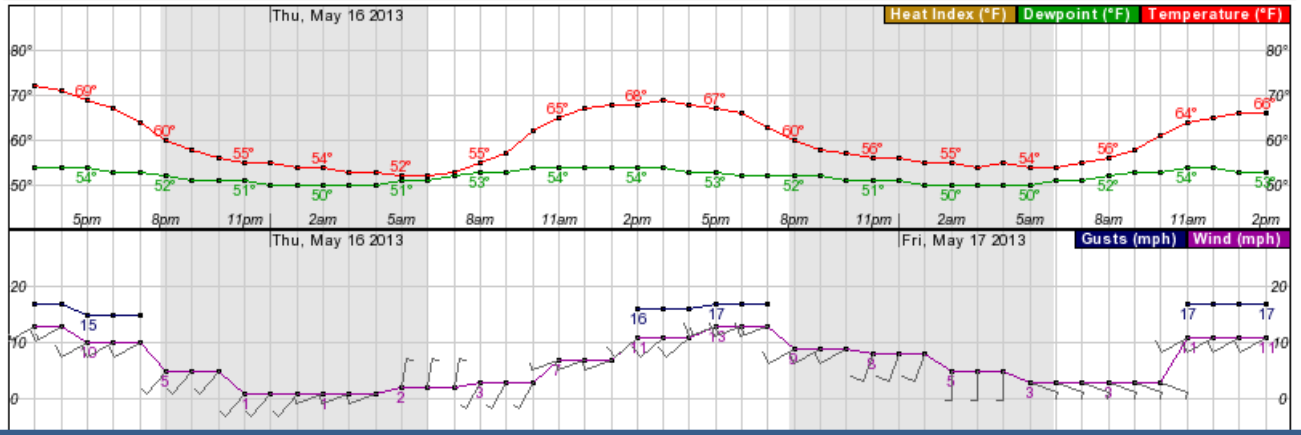
Last Update: 12:41 pm PDT May 15, 2013

Hourly Weather Forecast Graph

[dashes/dots] | [b/w] | [hide menu]

Hourly Weather Forecast Graphs

48-Hour Period Starting: 3pm Wed, May 15 2013 | Submit | Back 2 Days | Forward 2 Days



NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Share

San Diego, CA
Weather Forecast Office

Home | Current Hazards | Current Conditions | Forecasts | Hydrology | Climate | Weather Safety | Additional Info | Contact Us

No Warnings or Advisories In Effect for this Point.
For warnings and/or advisories in effect for adjacent areas to this point, see /sgx

Change Table Font Size Increase Decrease

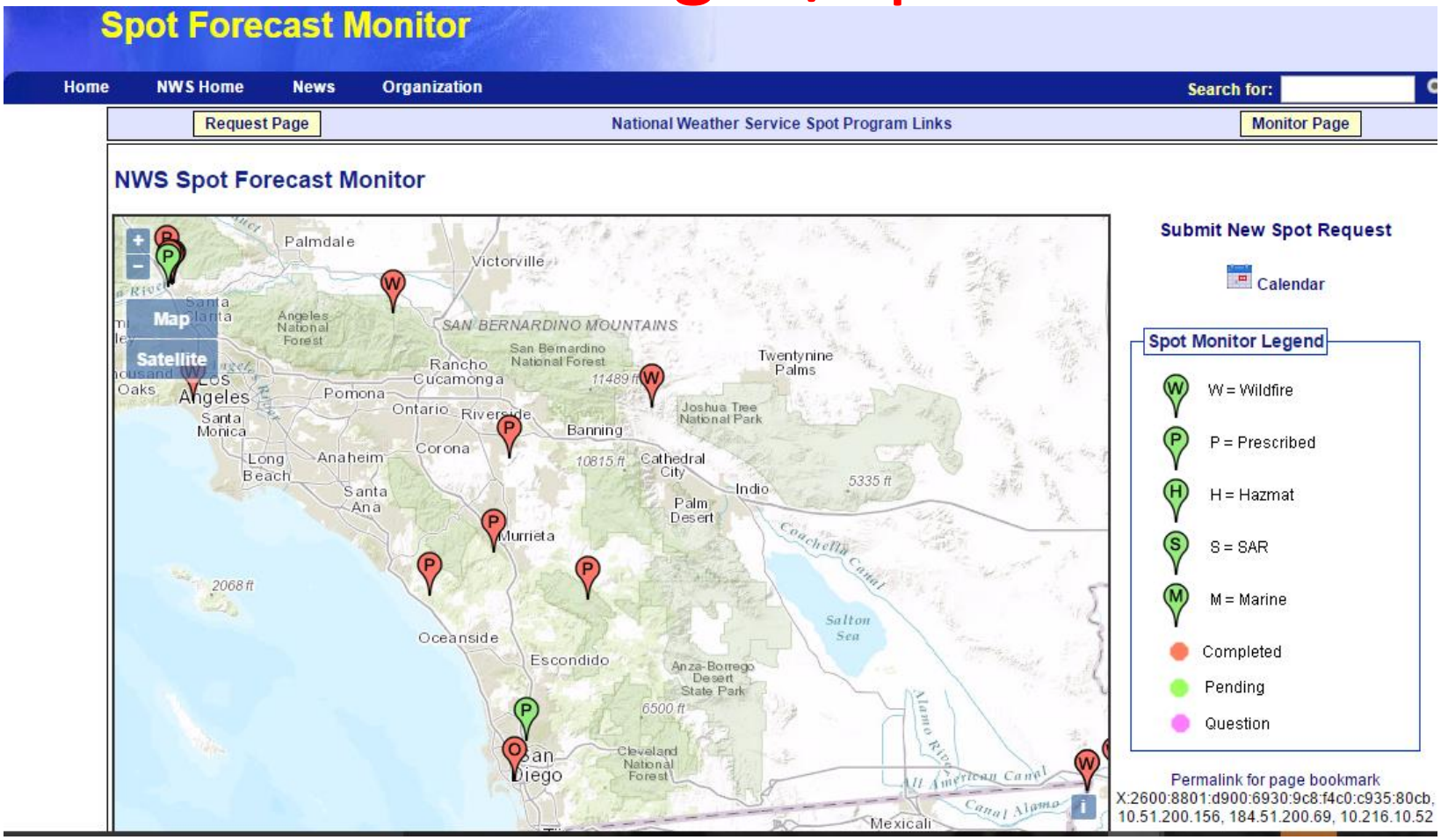
Forecast For Lat/Lon: 33.0480/-116.5890 (Elev. 4347 ft)
2 Miles SE Julian CA
Forecast Created at: 7am PDT Jun 2, 2017

Custom Weather Forecast Table

	Fri Jun 02				Sat Jun 03				Sun Jun 04				Mon Jun 05				Tue Jun 06				Wed Jun 07				Thu Jur		
Weather Daily-Temp	High **81** Low **54**				High **86** Low **59**				High **84** Low **59**				High **84** Low **59**				High **82** Low **58**				High **80** Low **58**				High **8** Low **5**		
Chance of Precip	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0'
Precip	0.00"	0.00"	0.00"	0.00"	0.00"	0.00"	0.00"	0.00"	0.00"	0.00"	0.00"	0.00"	0.00"	0.00"	0.00"												
12-hr Snow Total	0"		0"		0"		0"		0"		0"		0"		0"												
FRET	0.25"				0.27"				0.27"				0.28"				0.25"				0.25"				0.29"		
6-Hour	5am	11am	5pm	11pm	5am	11am	5pm	11pm	5am	11am	5pm	11pm	5am	11am	5pm	11pm	5am	11am	5pm	11pm	5am	11am	5pm	11pm	5am	11am	5p
Temp	55	78	78	63	60	83	82	64	60	81	80	64	60	81	80	63	59	79	78	62	59	77	76	60	57	81	8
Cloudiness	11%	9%	6%	5%	5%	6%	10%	9%	12%	14%	13%	5%	4%	12%	12%	7%	7%	11%	11%	15%	15%	17%	17%	13%	13%	16%	16
Dewpoint	41	40	39	45	35	34	47	39	34	42	52	46	36	40	56	47	40	45	57	48	44	46	56	46	36	38	5

Fire Weather and Spot Forecast

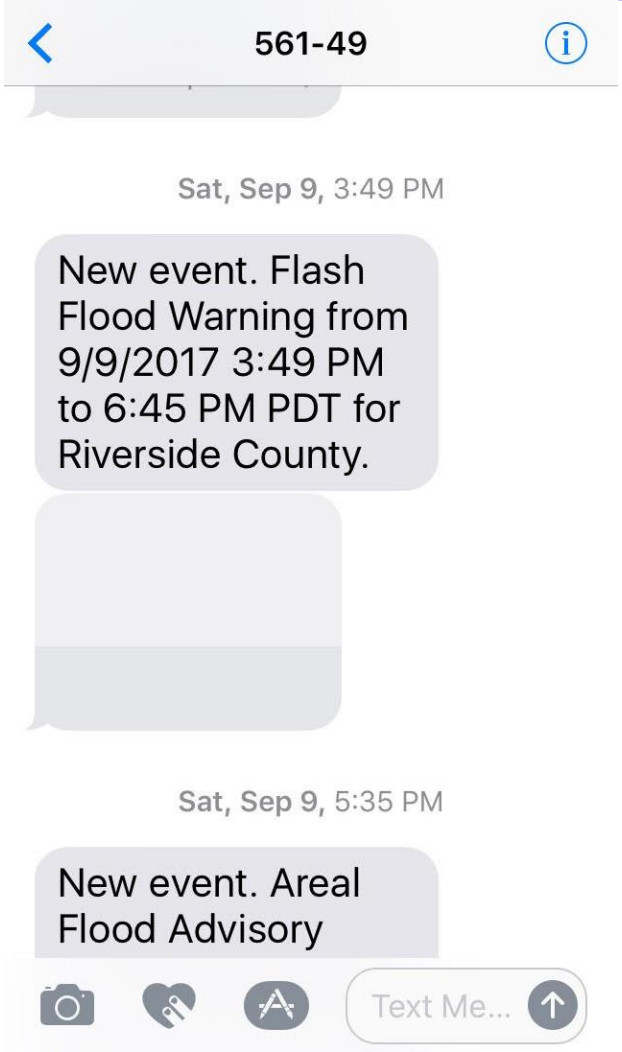
weather.gov/Spot



ALERTS

https://inws.ncep.noaa.gov (Your account and defined area)

https://nwschat.weather.gov (Your account and Instant Message)



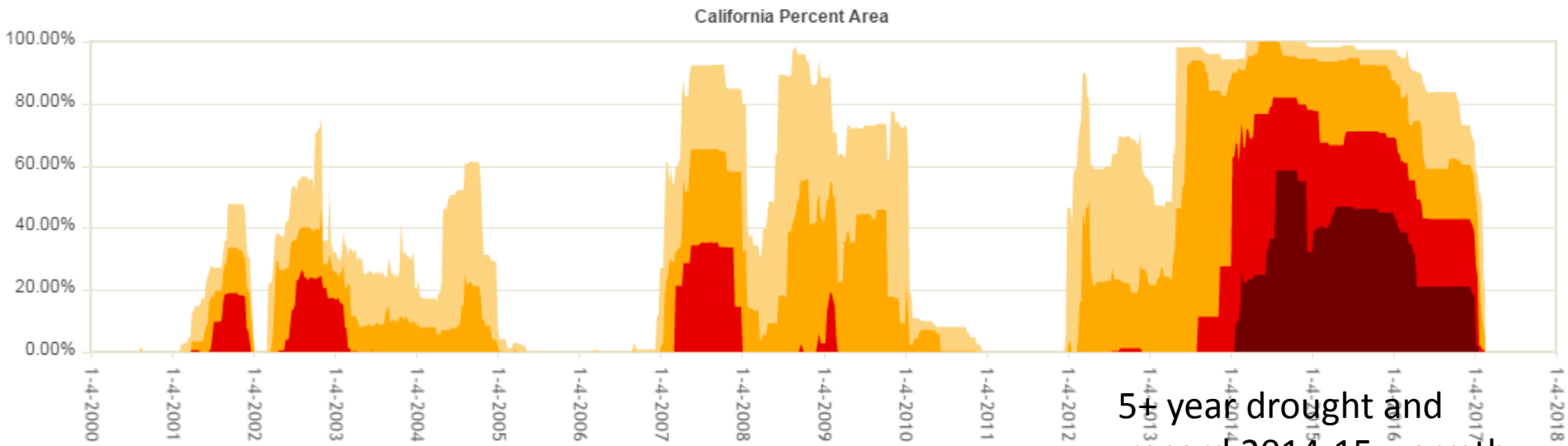
Radar valid at 645 pm PDT, Sep 9th 2017

Southern California Weather Impacts
2 years of Extremes

Weather-Ready Nation

Alex Tardy

California Drought Timeline



5+ year drought and record 2014-15 warmth

U.S. Drought Monitor Legend

Drought Severity

- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)

Precipitation Totals in Water Year

Riverside

2010-2011	12.54
2011-2012	5.16
2012-2013	4.31
2013-2014	3.08
2014-2015	9.57
2015-2016	5.45
2016-2017	13.72

Santa Ana

2010-2011	20.52
2011-2012	9.95
2012-2013	4.68
2013-2014	3.55
2014-2015	8.29
2015-2016	5.21
2016-2017	17.07

San Diego

2010-2011	12.70
2011-2012	7.90
2012-2013	6.56
2013-2014	5.09
2014-2015	11.91
2015-2016	8.18
2016-2017	12.73

Palomar Mt

2010-2011	45.93
2011-2012	22.59
2012-2013	16.47
2013-2014	18.41
2014-2015	20.63
2015-2016	18.59
2016-2017	44.26

Palm Springs

2010-2011	6.71
2011-2012	2.38
2012-2013	2.24
2013-2014	2.12
2014-2015	2.77
2015-2016	3.55
2016-2017	8.96

La Nina winters

San Diego

Maximum 1-Year Mean Avg Temperature for San Diego Area,			
Rank	**Value**	**Ending Date**	**Missing Days**
1	67.6	2014-12-31	0
2	67.5	2015-12-31	0
3	67.2	1984-12-31	0
4	67.1	1981-12-31	0
5	67.0	1983-12-31	0
6	66.3	2017-12-31	96
7	66.3	2016-12-31	0
8	66.2	1978-12-31	0
9	65.9	1976-12-31	0
10	65.9	1980-12-31	0
Period of record: 1874-10-04 to 2017-09-26			

Encinitas

January 20-22, 2017 storms

John Ugrob

55 to 65 mph wind in San Diego County on January 20

800 trees Chula Vista and 11 million in damage in SD county

Chula Vista - Friday, January 20

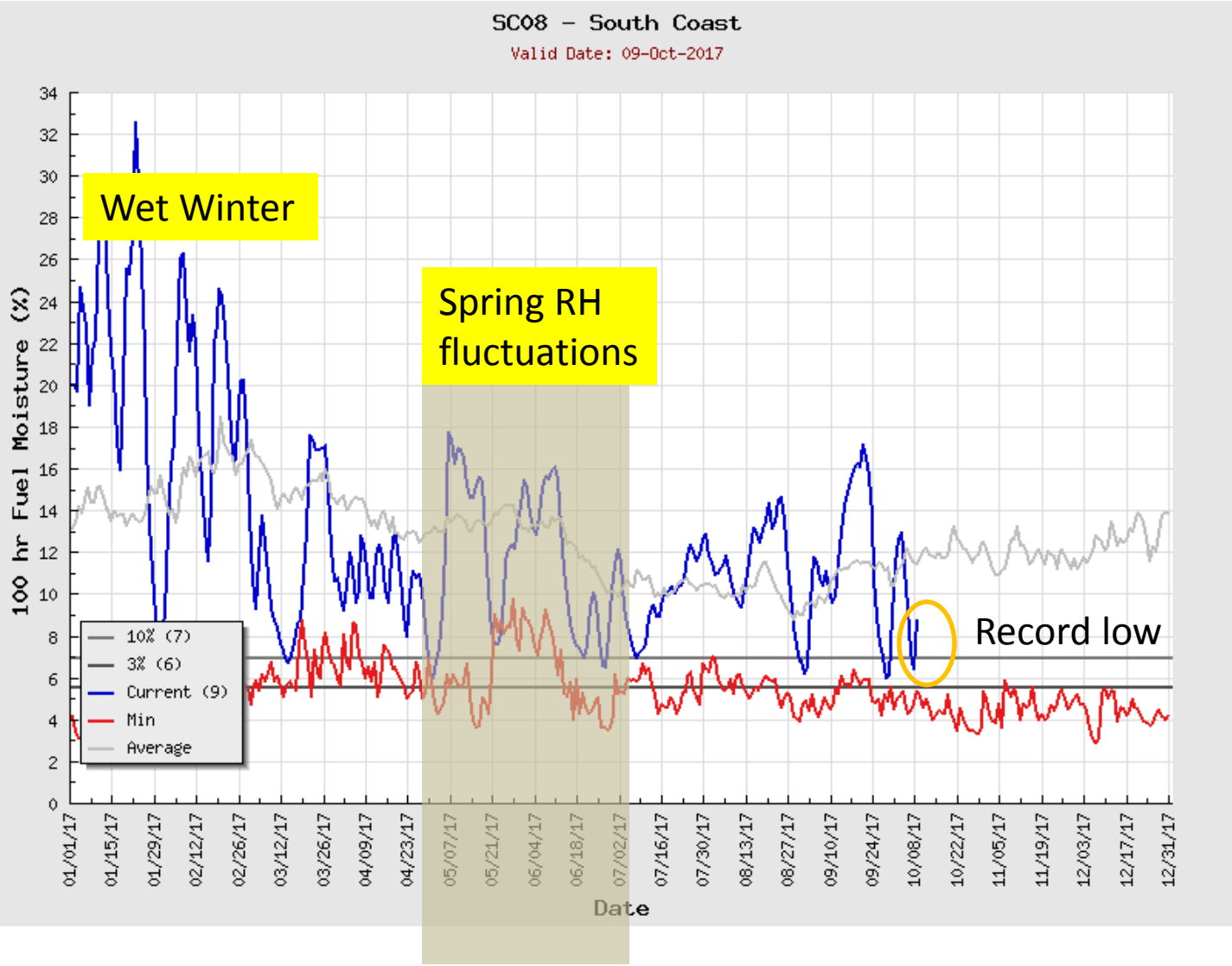
Jim Geering

NBC7 photos - highway 163 incident February 17, 2017 storm

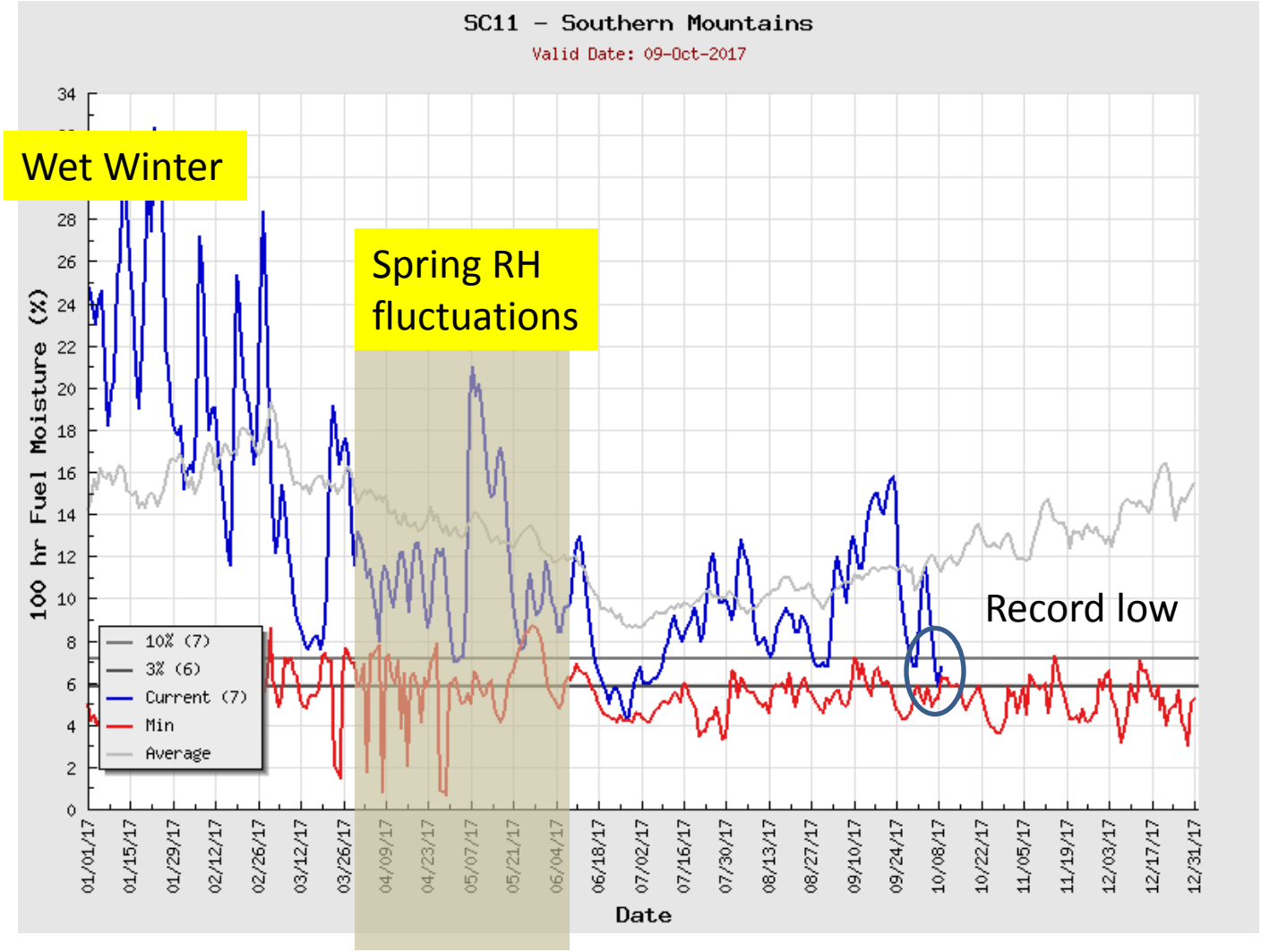
San Diego Major Flood Event February 27, 2017
NWS San Diego – Alex Tardy

830 am Tuesday on San Diego River
under Highway 163– Alex Tardy

Coast - Fuel Moisture 100-hour



Mountains - Fuel Moisture 100-hour



Heat Waves of 100+ consecutive days

Number of Consecutive Days Max Temperature >= 100 for CAMPO,		
Rank	Run Length	Ending Date
1	10	1962-08-20
2	9	1980-07-29
3	8	1995-08-12
4	7	2017-09-01
-	7	1997-08-07
-	7	1982-09-07
-	7	1979-09-13

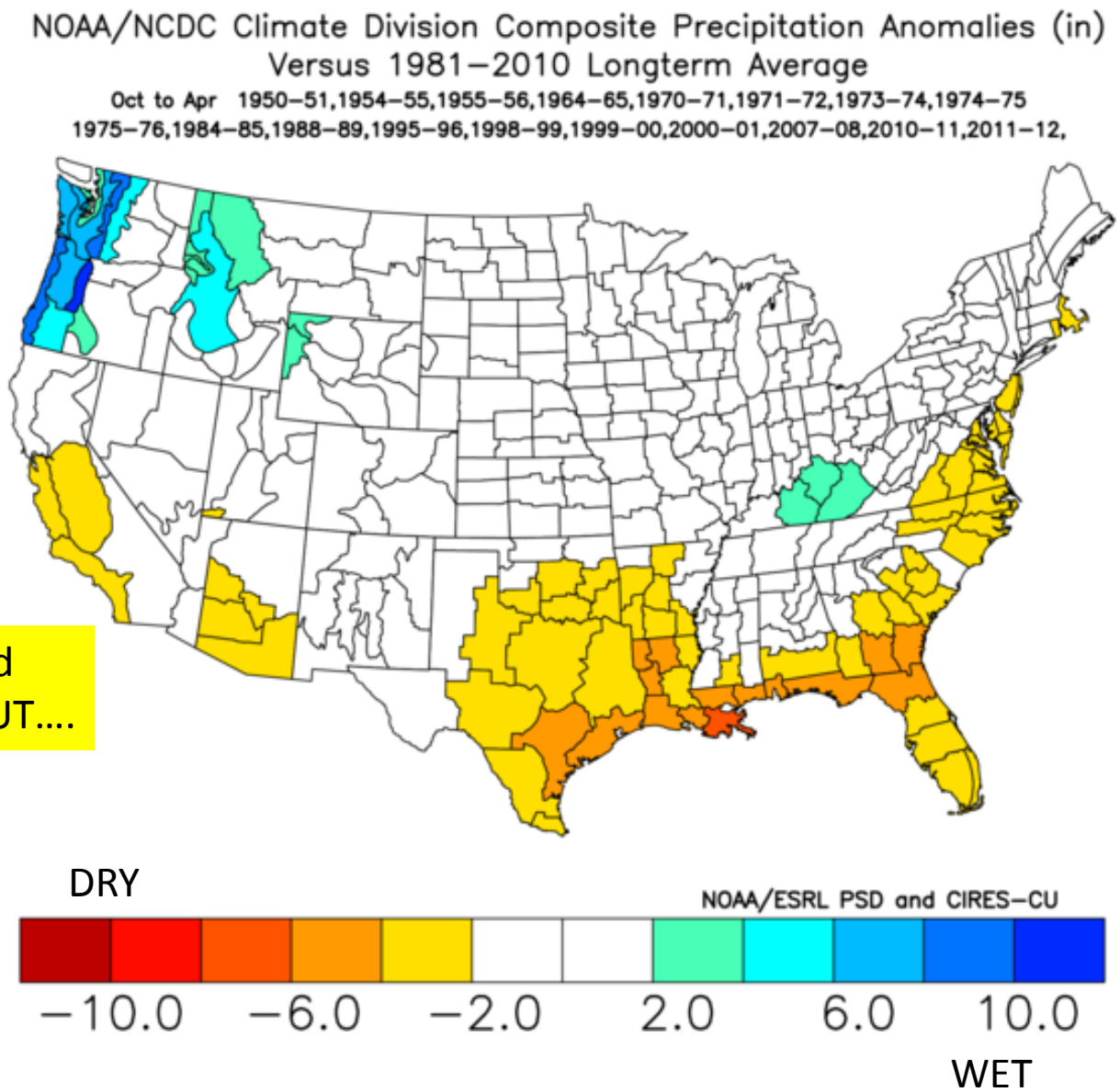
Number of Consecutive Days Max Temperature >= 100 for Ramona Area,		
Rank	Run Length	Ending Date
1	7	1979-09-14
2	6	2017-09-02
-	6	1982-09-06
-	6	1978-09-28
-	6	1976-06-28
6	5	2009-08-30

San Diego – Heavy Rain Any Year

Winter October to April

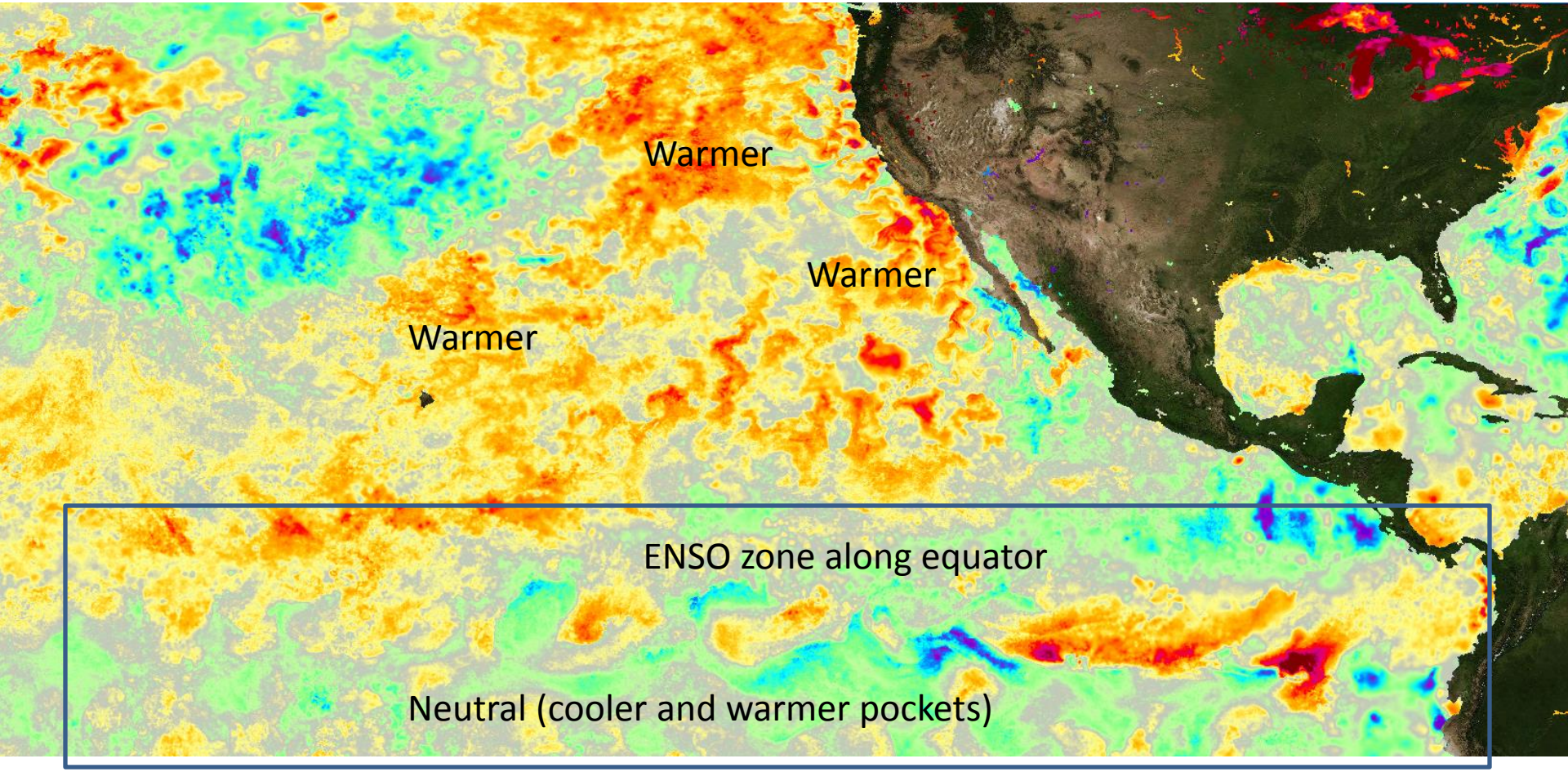
Month Year	Total Precipitation	October-April	ENSO ONI
January 1993	**9.09**	**17.81**	**0.2 (neutral)**
January 1995	8.06	16.63	1.3
February 1998	7.65	16.19	2.5
March 1991	6.96	11.77	0.4 (neutral)
March 1983	6.57	17.87	2.3
December 1965	6.60	14.74	1.5
January 1978	5.95	16.54	0.7
February 2005 Drought Buster Year	5.83	22.35	0.7
January 1979	5.82	14.03	-0.1 (neutral)
November 1965	5.82	14.74	1.5
January 1980	5.58	14.96	0.5
December 2010	5.00	12.18	**-1.4**
February 2017 2016-17 Drought Buster Year	3.71	12.63	La Nina -0.7

Past La Nina Winters precipitation anomalies

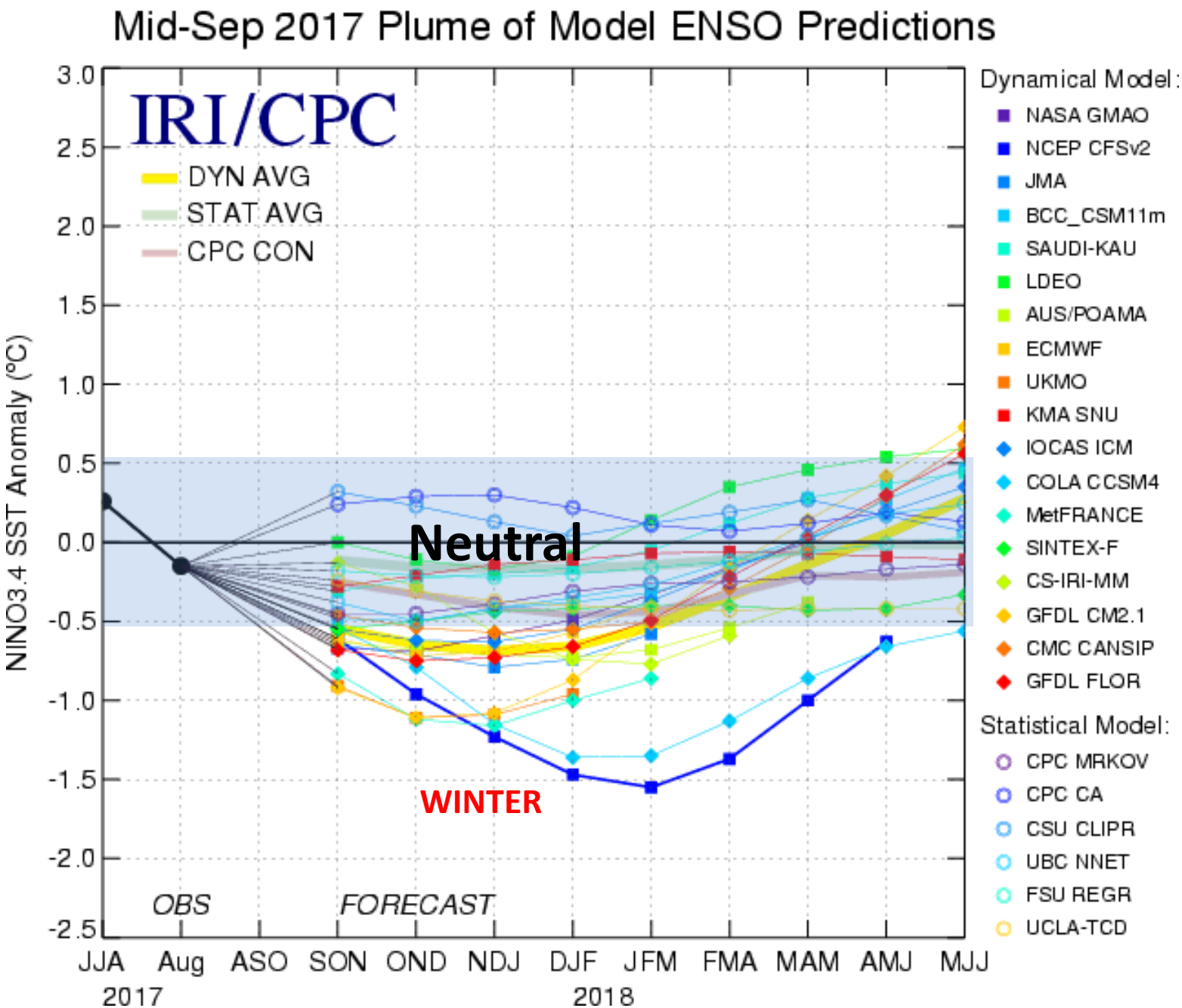


La Nina tend
to be dry BUT….

Pacific Ocean
Sea Surface Temperature (departure)



Octoboer 7, 2017


Mid-Sep 2017 Plume of Model ENSO Predictions
IRI/CPC
DYN AVG
STAT AVG
CPC CON
Neutral
WINTER
OBS
FORECAST
NINO3.4 SST Anomaly (°C)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
JJA
Aug
ASO
SON
OND
NDJ
DJF
JFM
FMA
MAM
AMJ
MJJ
2017
2018
Dynamical Model:
NASA GMAO
NCEP CFSv2
JMA
BCC_CSM11m
SAUDI-KAU
LDEO
AUS/POAMA
ECMWF
UKMO
KMA SNU
IOCAS ICM
COLA CCSM4
MetFRANCE
SINTEX-F
CS-IRI-MM
GFDL CM2.1
CMC CANSIP
GFDL FLOR
Statistical Model:
CPC MRKOV
CPC CA
CSU CLIPR
UBC NNET
FSU REGR
UCLA-TCD

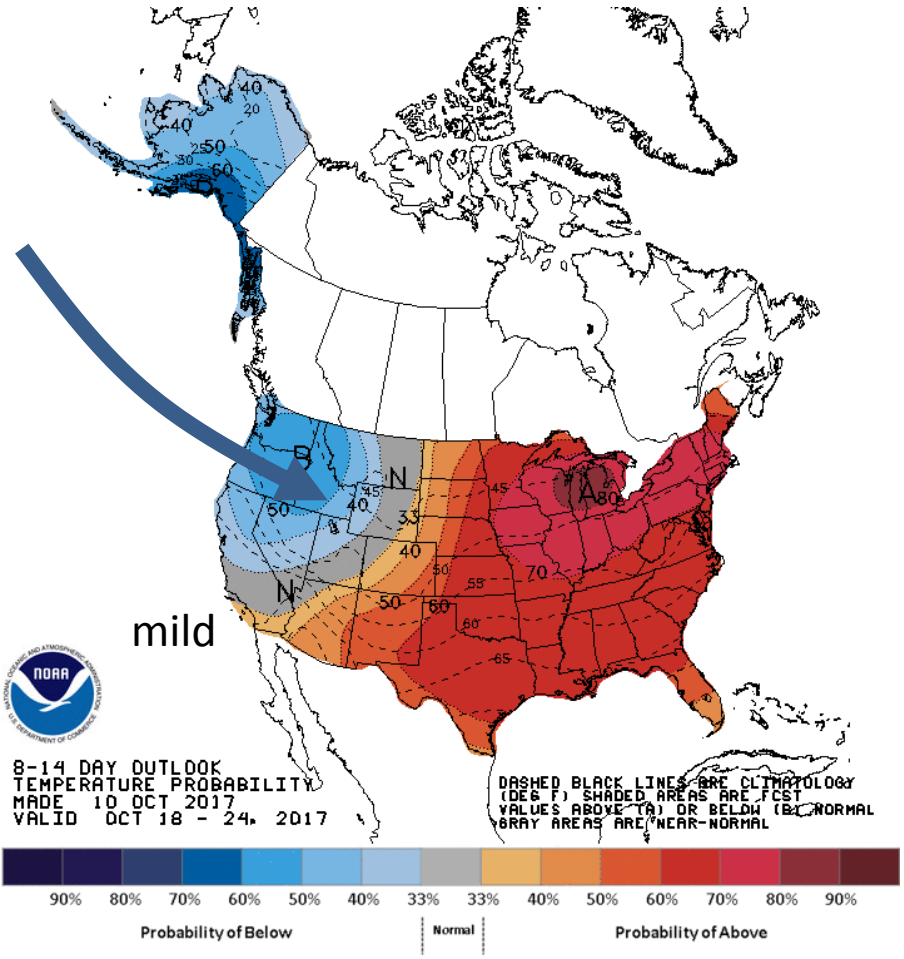
NOAA National Weather Service outlook for mid October to early November

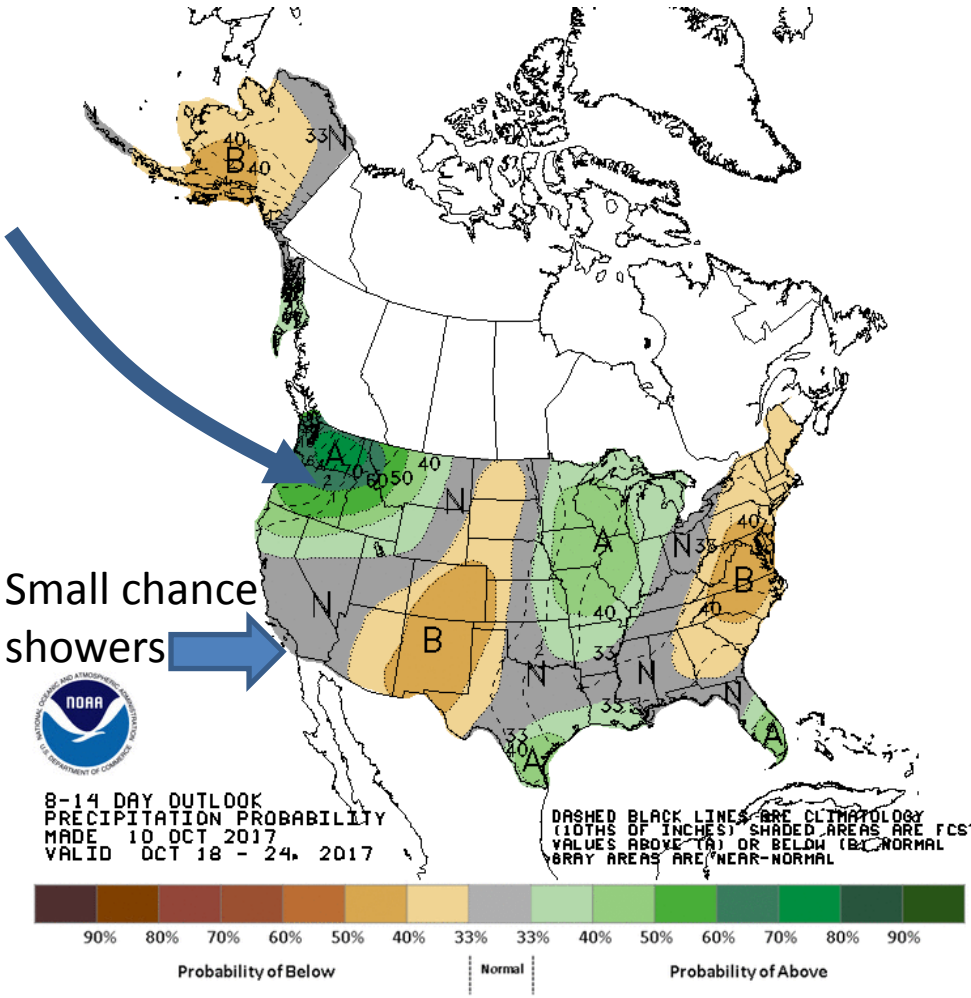
- Possible Santa Ana wind October 14-16, near average inland but above normal on the coast
- Pattern change brings the wet and cool storm track into the Pacific Northwest October 17-28 with only a chance of showers in Socal with a frontal passage. Cooler than normal conditions prevail Socal inland areas and near average on the coast.
- Upper level high pressure could rebuild October 22 to November 4, and bring dry conditions and above normal temperatures for the coast or possible heat wave. These conditions could begin with Santa Ana winds

Issued October 10, 2017

Storm Track to the north

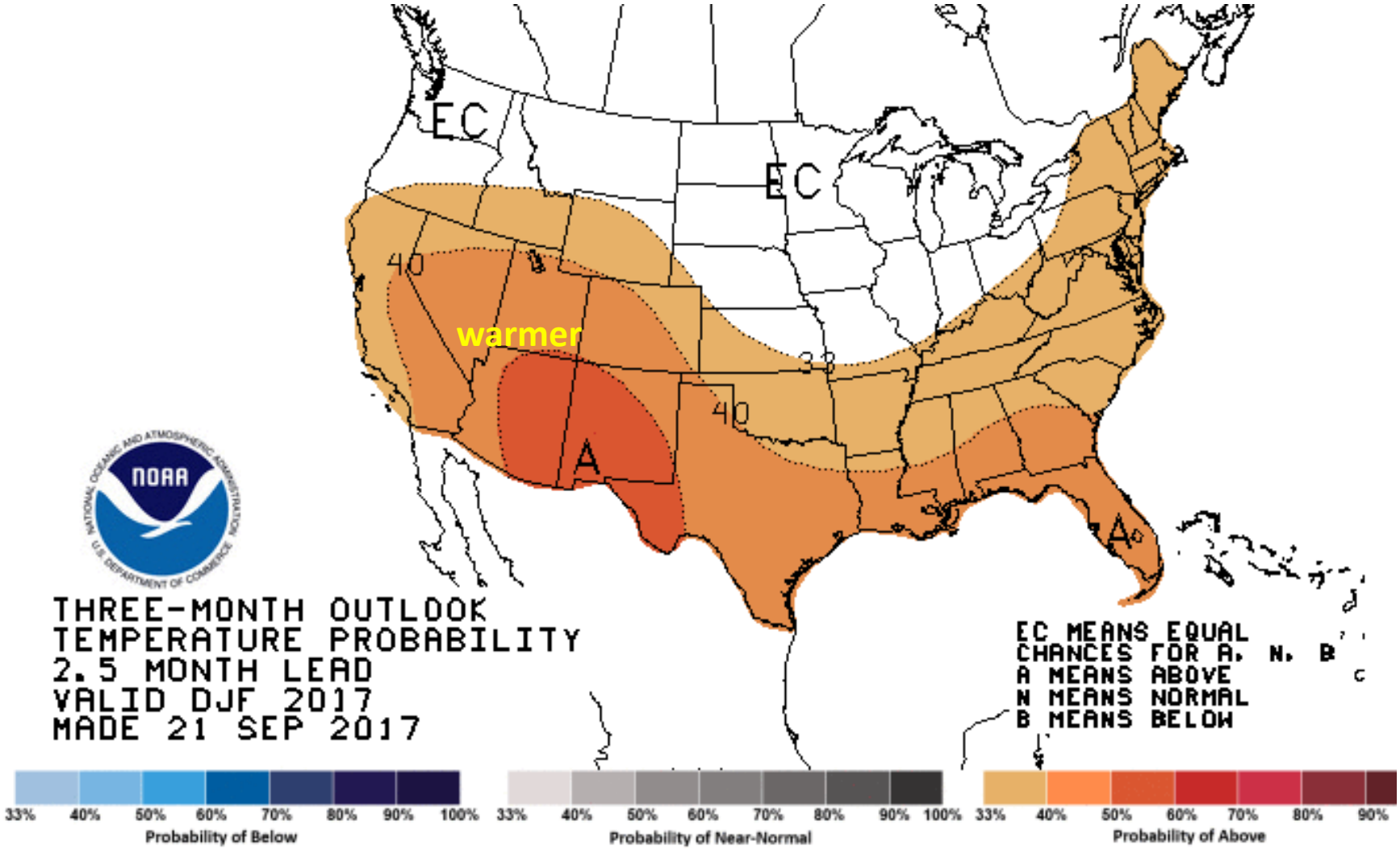
October 18-24



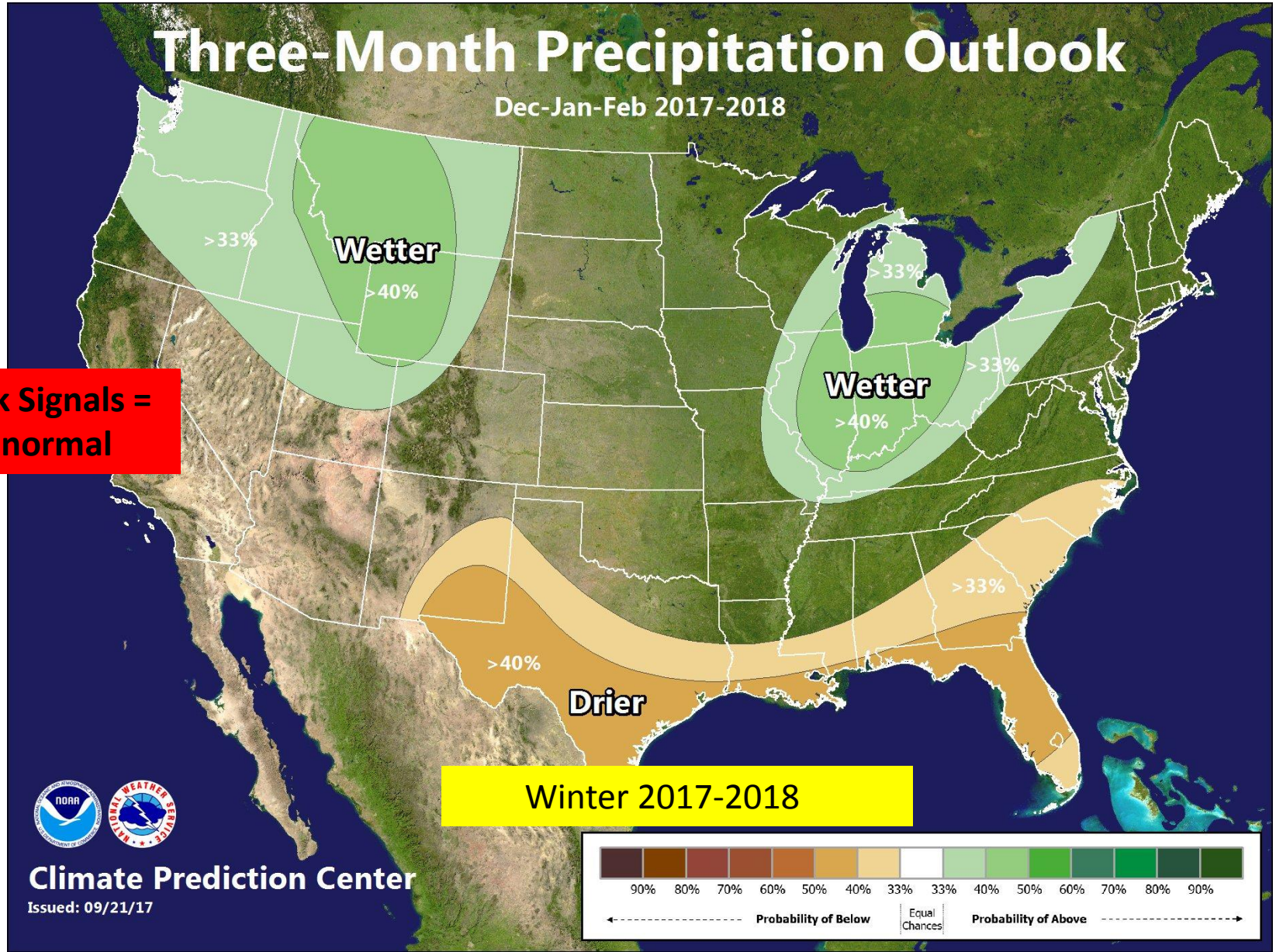


December through February 2017-18

Temperature



December through February 2017-18



Weak Signals = near normal

Winter 2017-2018

Summary

- 2017-18 is expected to be a **weak La Nina** year (2016-17 was also weak La Nina)
- Past La Nina years tend to be drier than normal but 2 recent La Nina years have been the wettest of 10 past winters
- The winter precipitation signal is poor for weak La Nina with extreme ranges in precipitation among the years of record
- Summer 2017 was above average and warmer than normal conditions are expected into the winter 2017-18
- Santa Ana conditions will develop prior to significant rainfall for October and November
- The past winter 2016-17 demonstrated extreme individual events for high winds and heavy rainfall and this is how we should prepare each season

Alexander.Tardy@noaa.gov