

# Weather Outlook

Stanislaus Co Water Advisory Committee Meeting

Weather Forecast Office

Sacramento, CA

Wednesday, February 22

Presenter : Courtney Carpenter

Warning Coordination Meteorologist

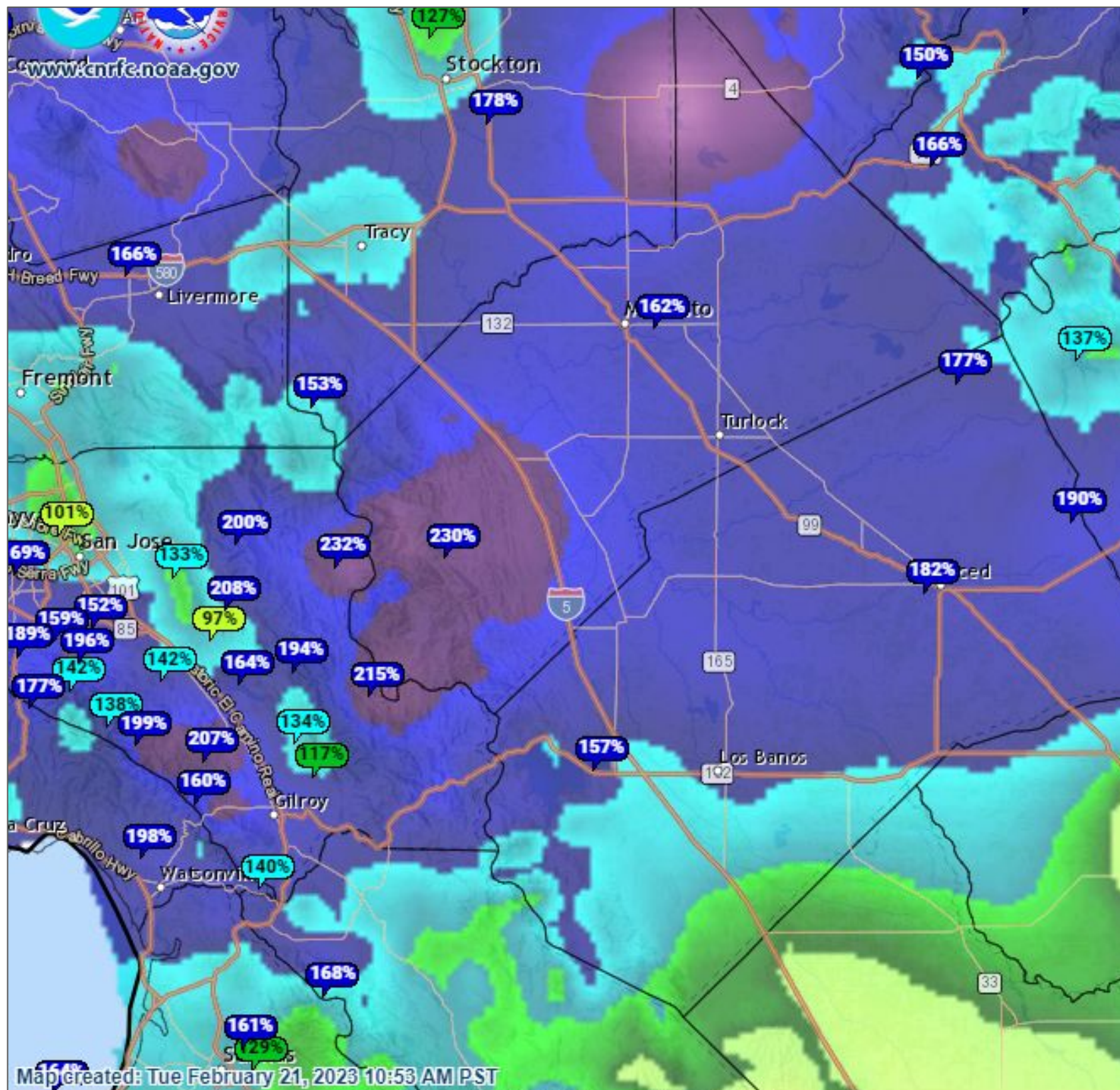




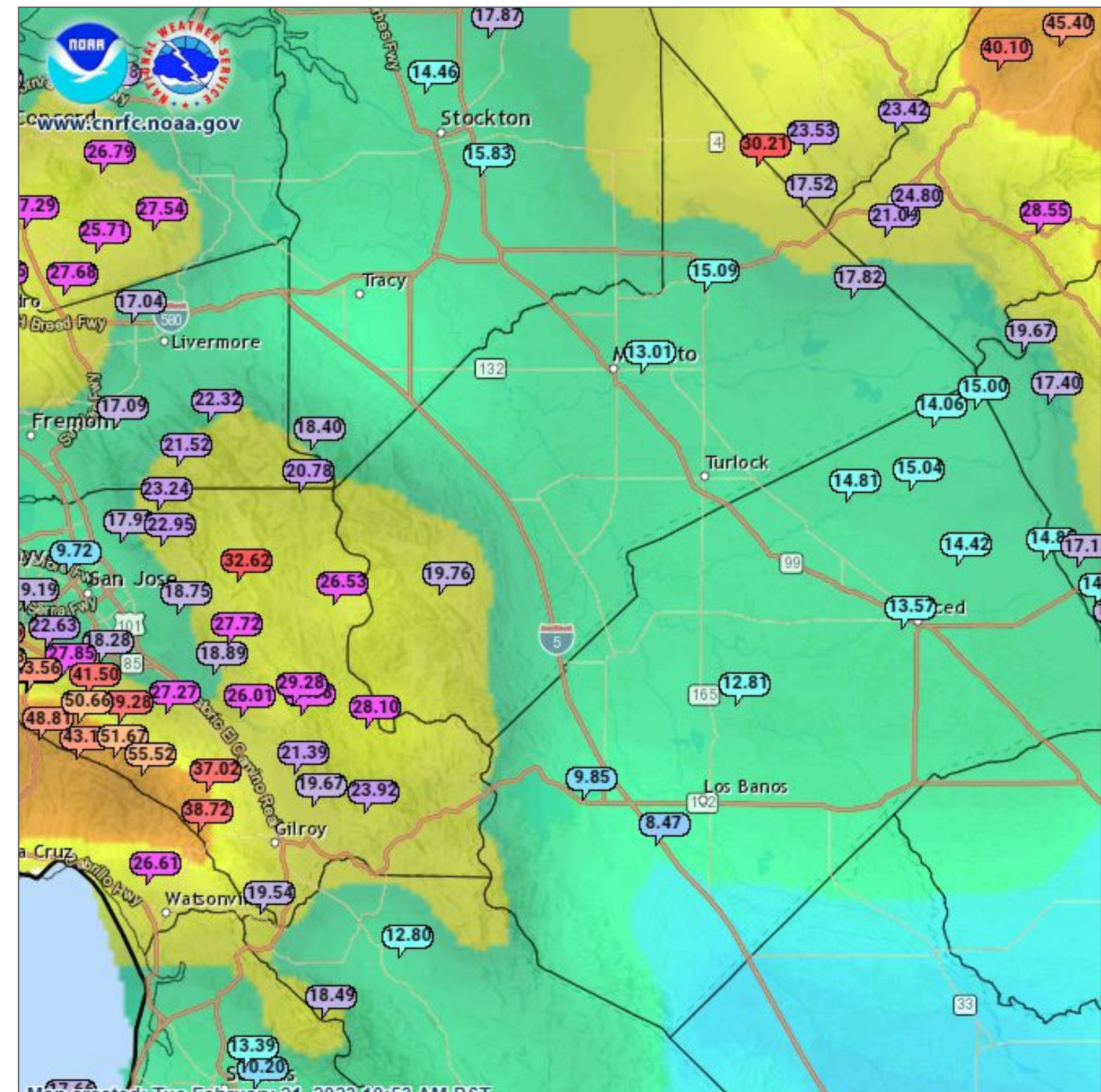
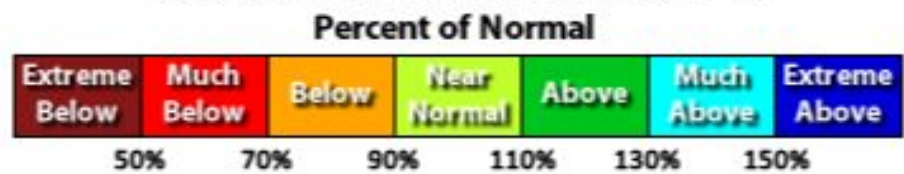


# Winter So Far





Valid: Tue Feb 21 2023 at 04:00 AM PST



Valid: Tue Feb 21 2023 at 04:00 AM PST



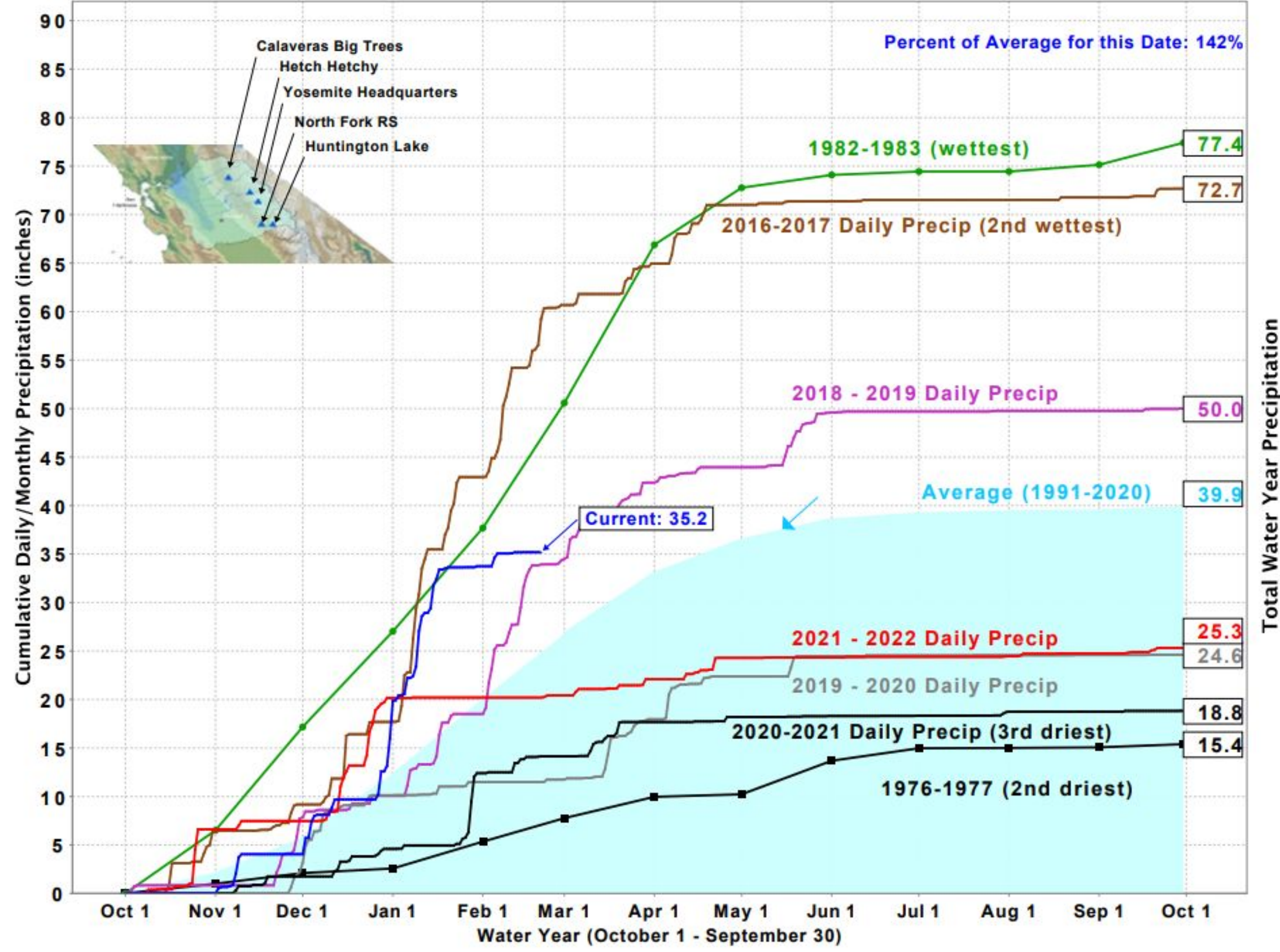




# Water Year 2022 - 2023 So Far

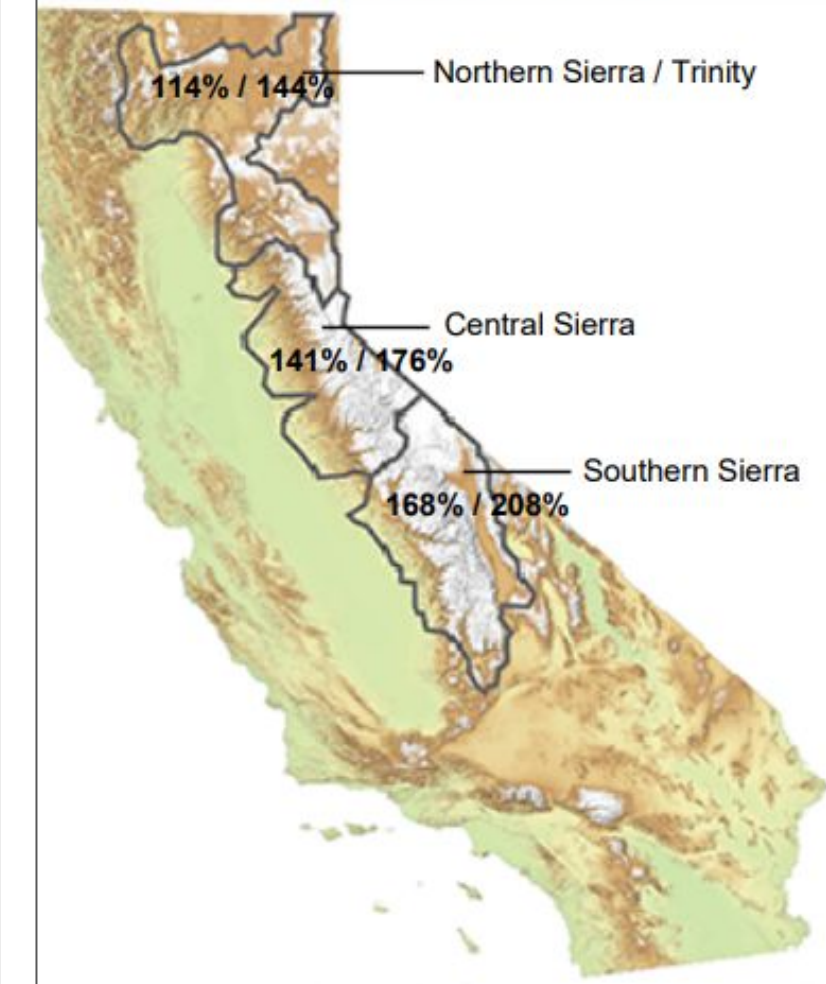
Weather Forecast Office  
 Sacramento, CA  
 Thursday, January 19

San Joaquin Precipitation: 5-Station Index, February 21, 2023



## CURRENT REGIONAL SNOWPACK FROM AUTOMATED SNOW SENSORS

of April 1 Average / % of Normal for This Date



NORTH	
Data as of February 21, 2023	
Number of Stations Reporting	30
Average snow water equivalent (Inches)	32.9
Percent of April 1 Average (%)	114
Percent of normal for this date (%)	144

CENTRAL	
Data as of February 21, 2023	
Number of Stations Reporting	50
Average snow water equivalent (Inches)	38.5
Percent of April 1 Average (%)	141
Percent of normal for this date (%)	176

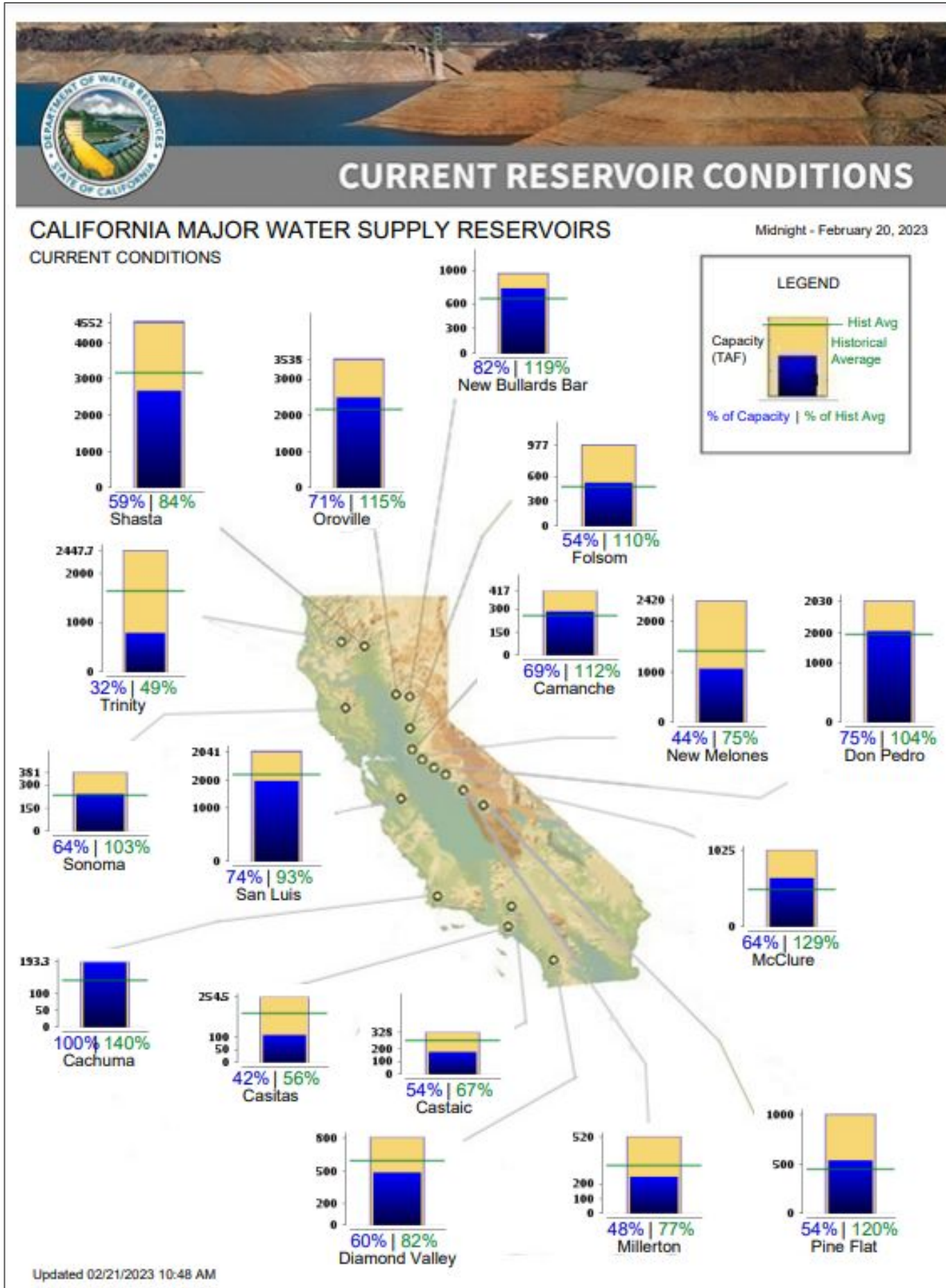
SOUTH	
Data as of February 21, 2023	
Number of Stations Reporting	30
Average snow water equivalent (Inches)	38.0
Percent of April 1 Average (%)	168
Percent of normal for this date (%)	208

STATE	
Data as of February 21, 2023	
Number of Stations Reporting	110
Average snow water equivalent (Inches)	36.8
Percent of April 1 Average (%)	139
Percent of normal for this date (%)	174





# Current Reservoir Conditions





# Current Drought Conditions

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## U.S. Drought Monitor Sacramento, CA WFO

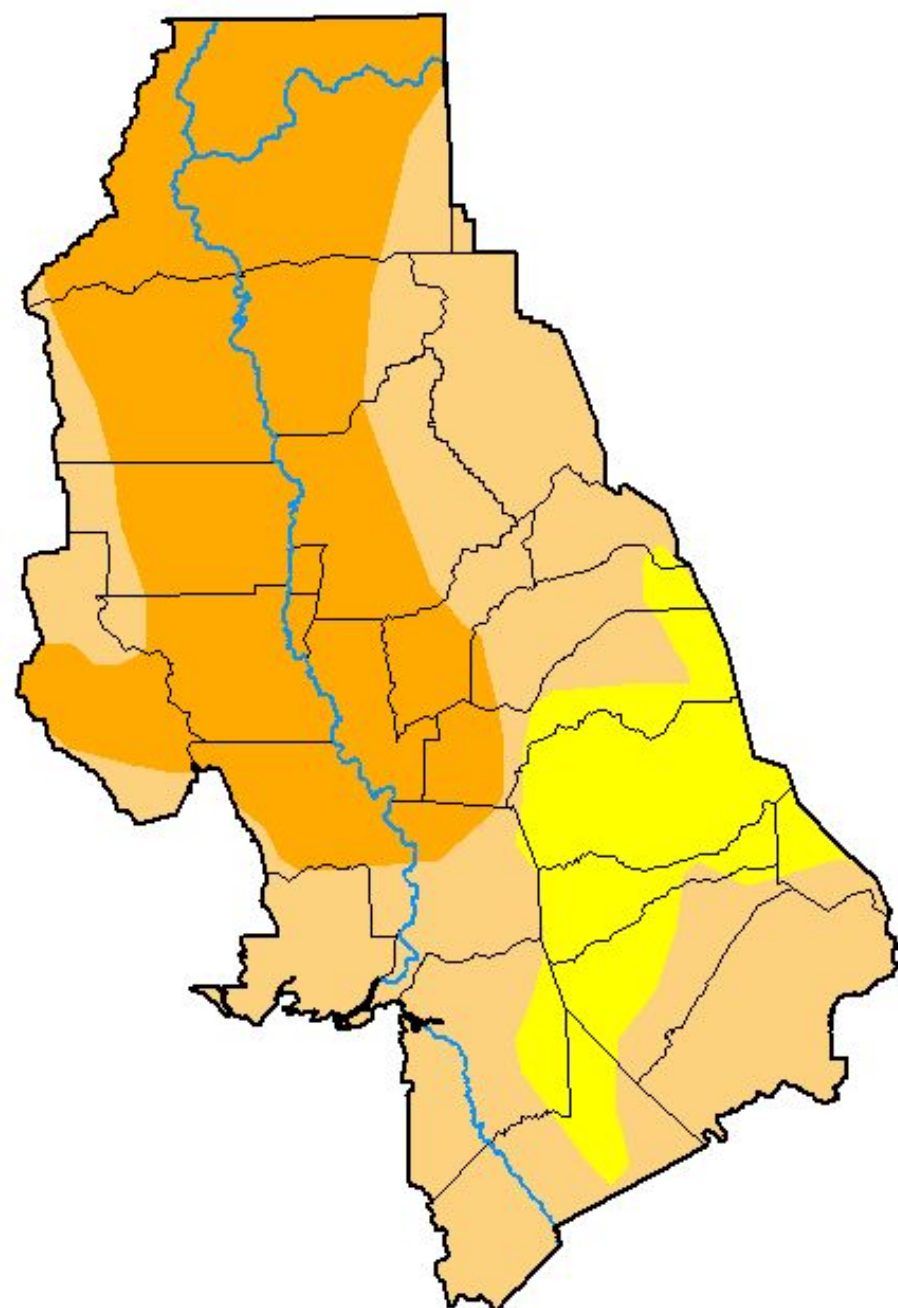
**February 14, 2023**

(Released Thursday, Feb. 16, 2023)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	0.00	100.00	85.98	42.44	0.00	0.00
<b>Last Week</b> <i>02-07-2023</i>	0.00	100.00	85.98	42.44	0.00	0.00
<b>3 Months Ago</b> <i>11-15-2022</i>	0.00	100.00	100.00	100.00	76.44	5.92
<b>Start of Calendar Year</b> <i>01-03-2023</i>	0.00	100.00	100.00	92.51	53.89	0.00
<b>Start of Water Year</b> <i>09-27-2022</i>	0.00	100.00	100.00	100.00	71.11	8.90
<b>One Year Ago</b> <i>02-15-2022</i>	0.00	100.00	100.00	94.83	0.44	0.00



Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>*

Author:

Brian Fuchs  
 National Drought Mitigation Center



[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)



# Outlooks





# 2022-2023 ENSO Predictions

Weather Forecast Office  
Sacramento, CA  
Wednesday, February 22

**... According to the Climate Prediction Center ...**

**ENSO-neutral conditions are expected to begin within the next couple of months, and persist through the Northern Hemisphere spring and early summer.**

**2/9/2023**





# ENSO CPC Probabilities

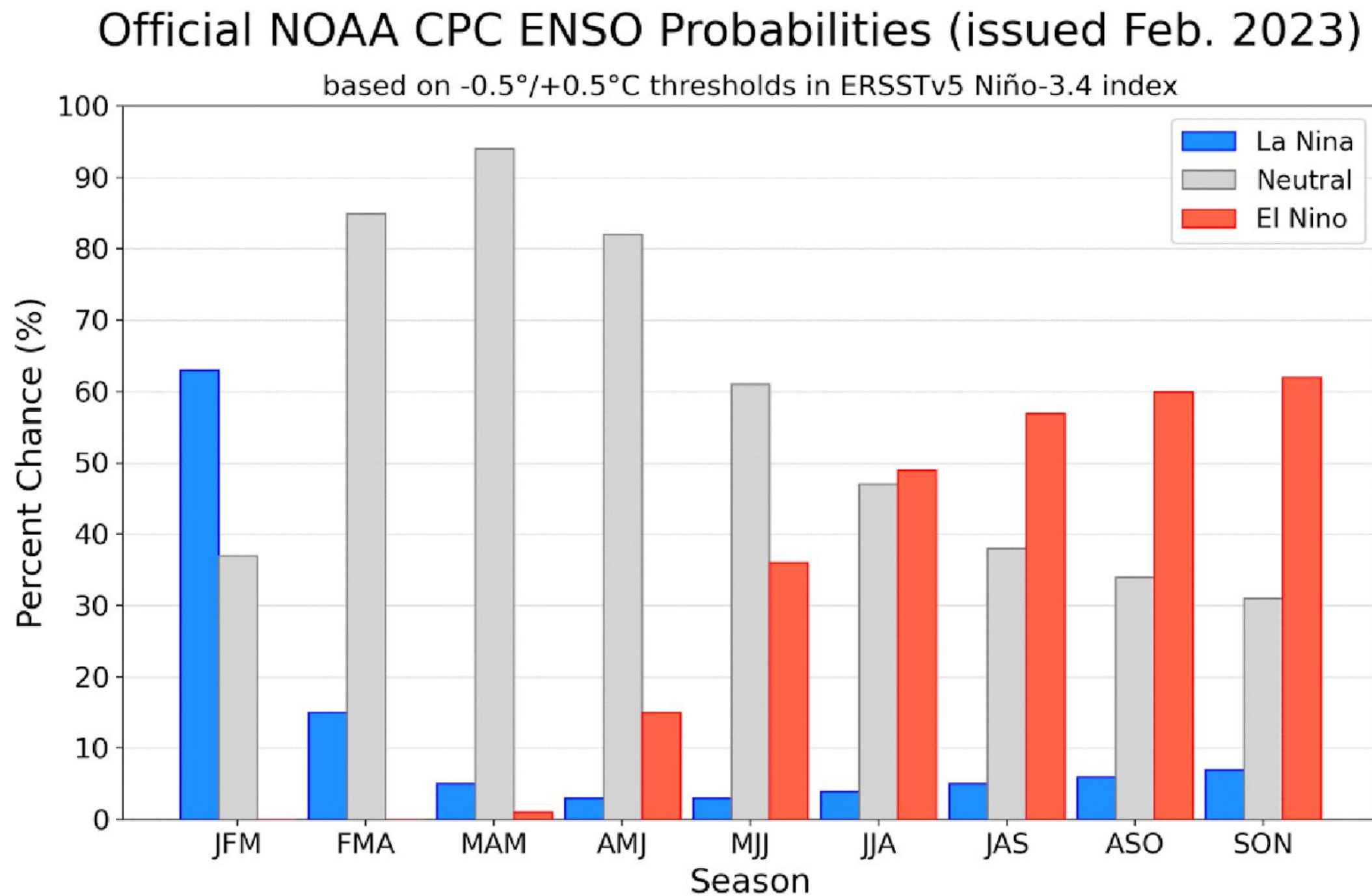
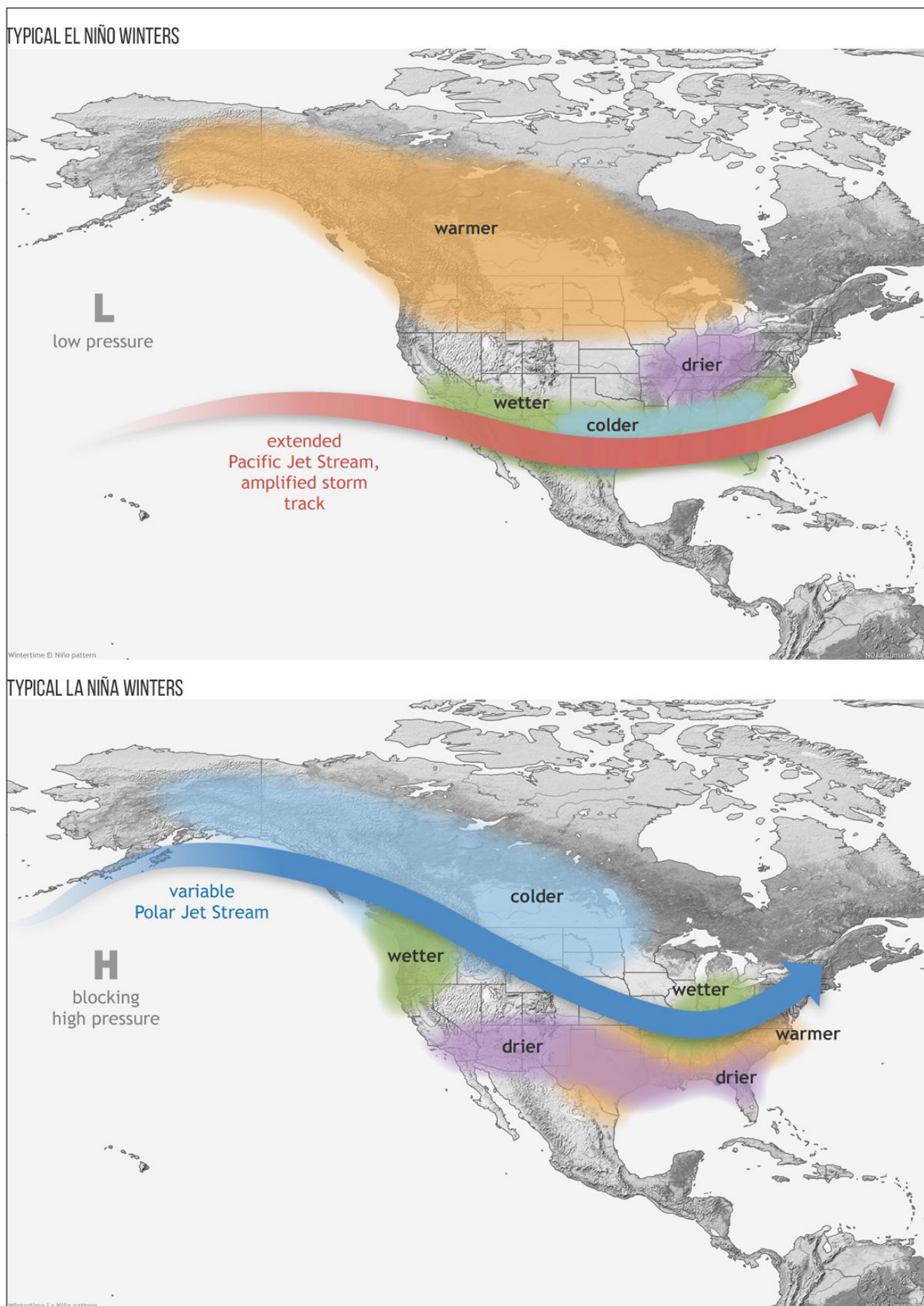


Figure 7. Official ENSO probabilities for the Niño 3.4 sea surface temperature index ( $5^{\circ}\text{N}$ - $5^{\circ}\text{S}$ ,  $120^{\circ}\text{W}$ - $170^{\circ}\text{W}$ ). Figure updated 9 February 2023.





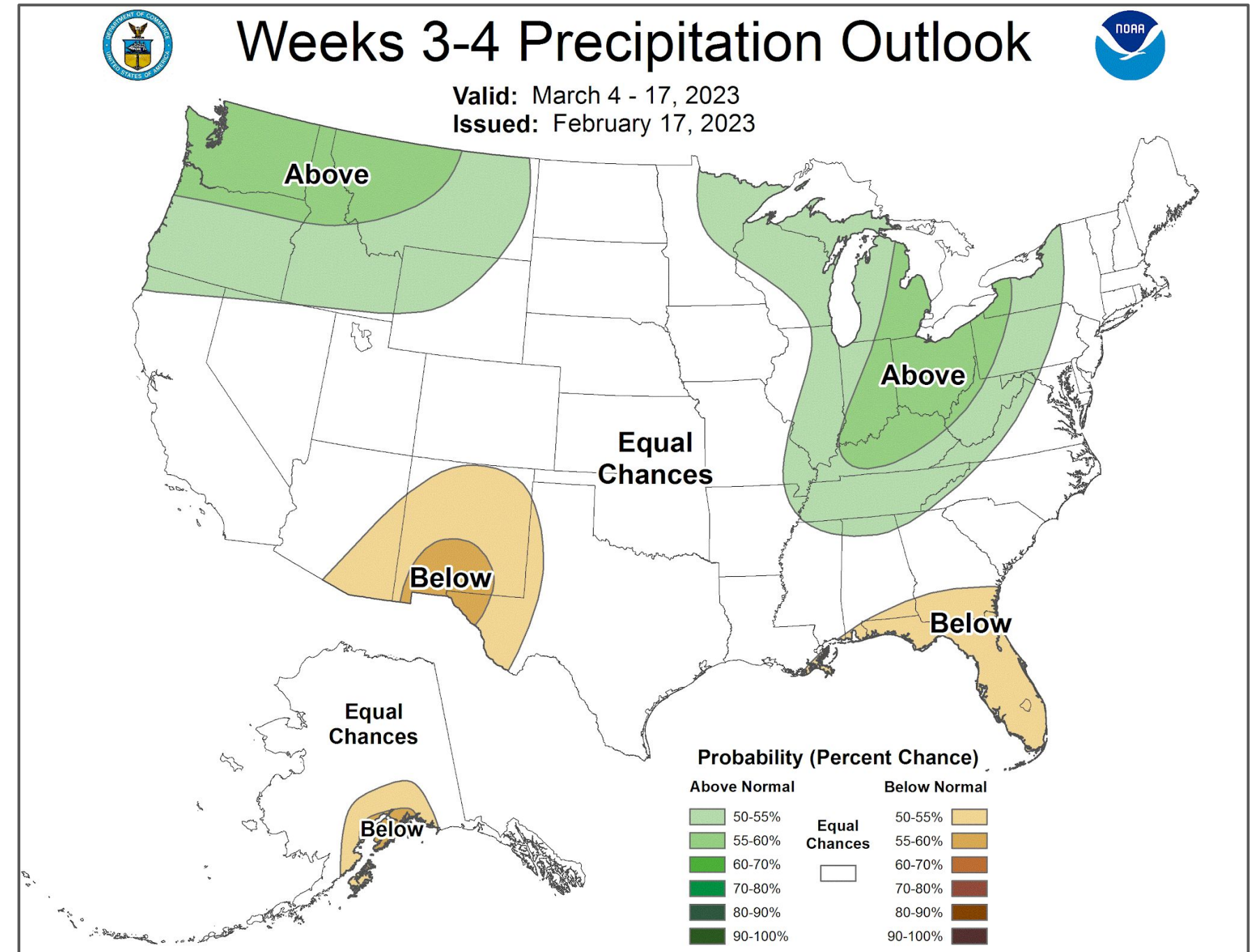
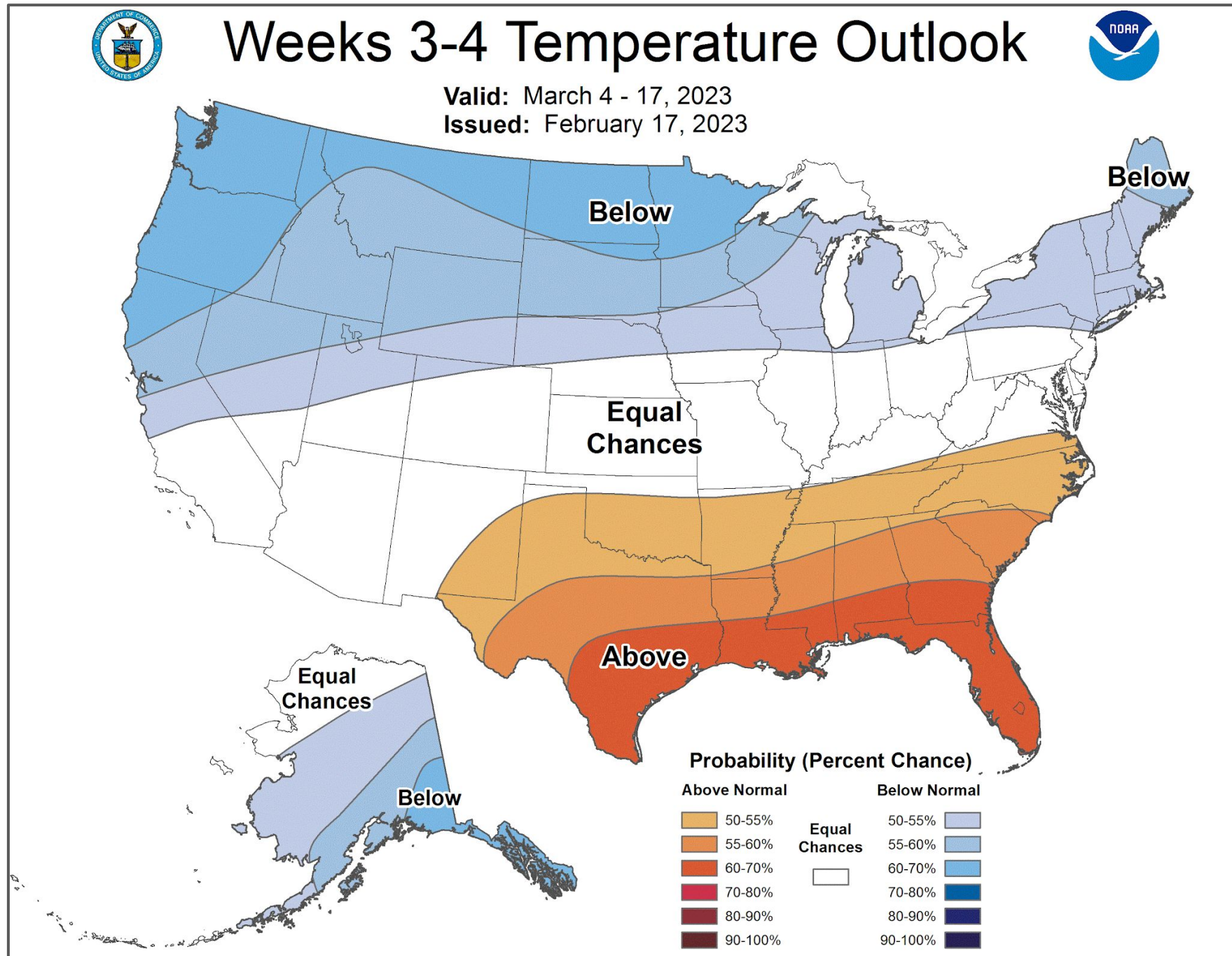
- **La Niña conditions typically drive the storm track north across the Pacific Northwest**
- **N. California precipitation is highly dependent on where the blocking high pressure system sets up in the Pacific**
- **Remember, our future water supply will be dependent on individual storms!**





# CPC Weeks 3-4 Outlooks

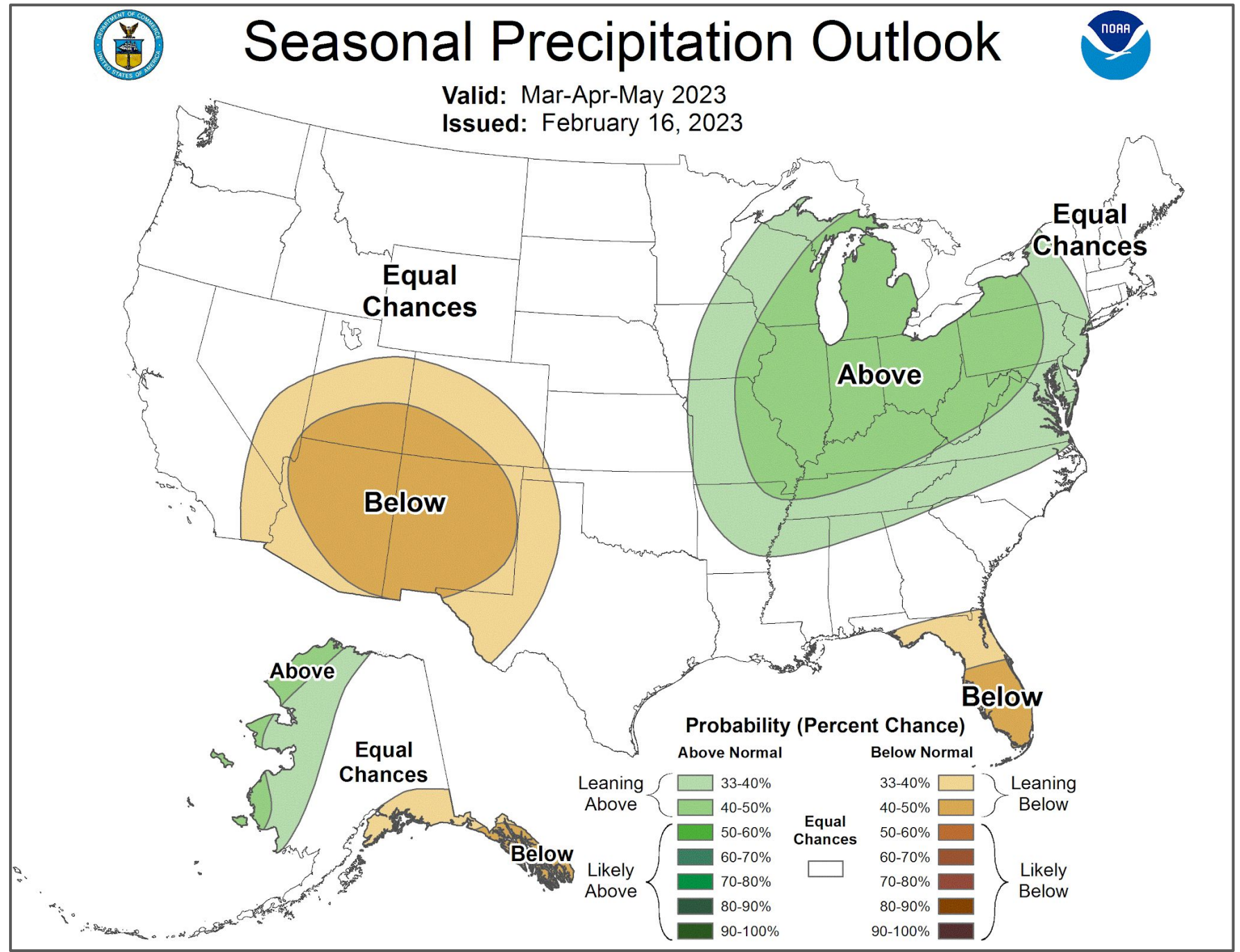
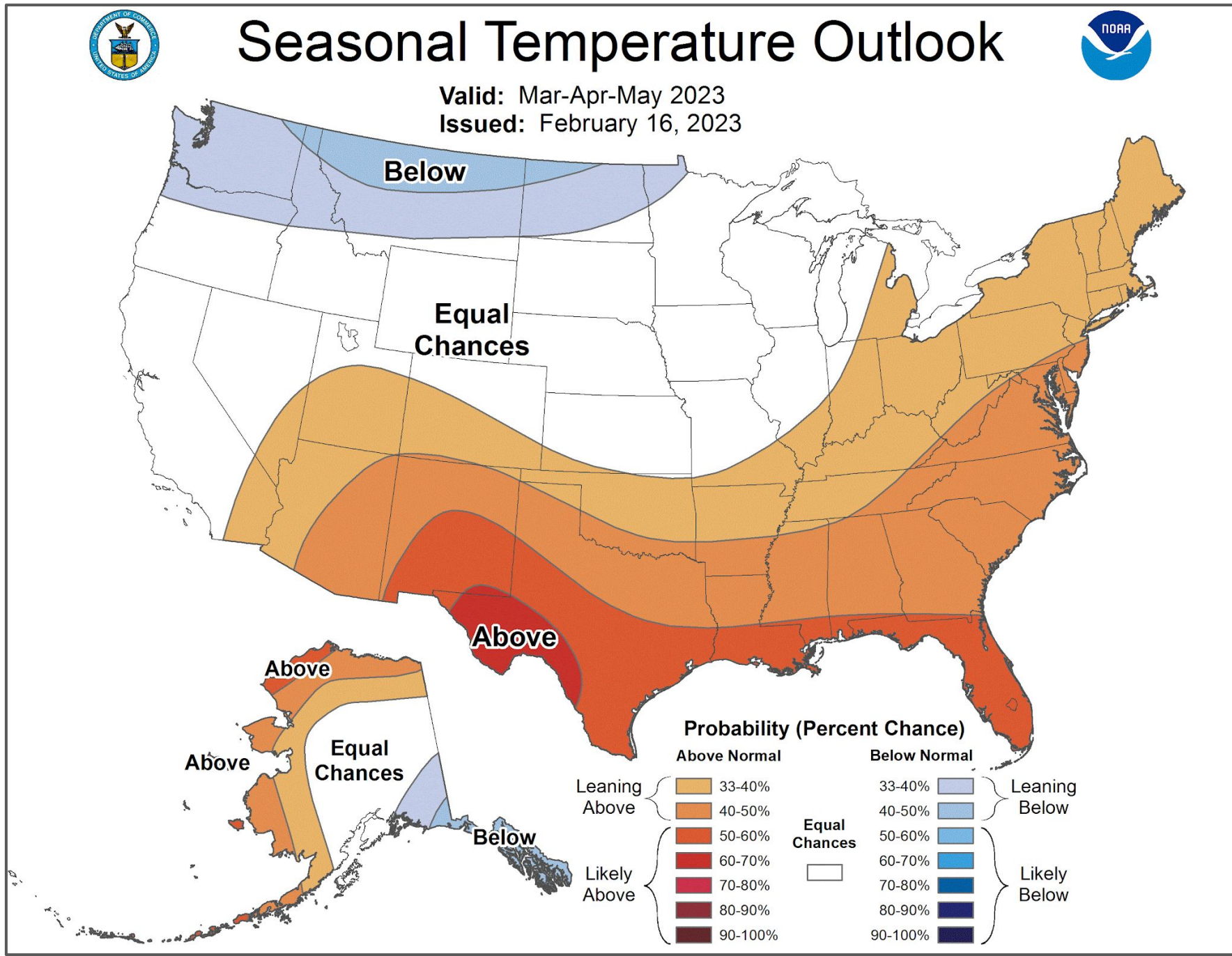
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Sacramento, CA  
Wednesday, February 22



Odds leaning towards **BELOW NORMAL** temperatures and **EQUAL CHANCES** precipitation



## February - March - April

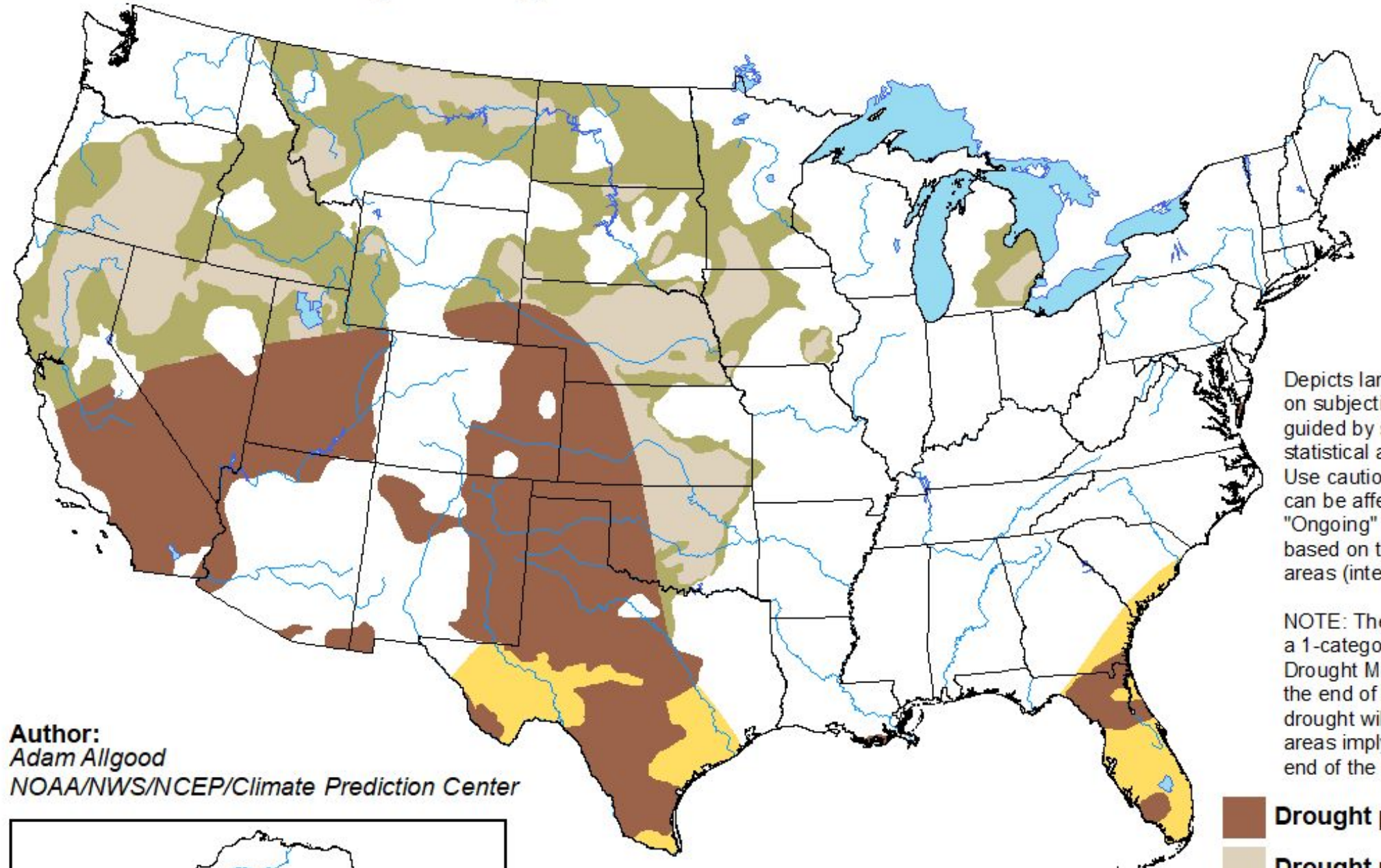


Odds leaning towards **EQUAL CHANCES** of Above, Near, or Below Normal temperatures and precipitation



## U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for February 16 - May 31, 2023  
 Released February 16

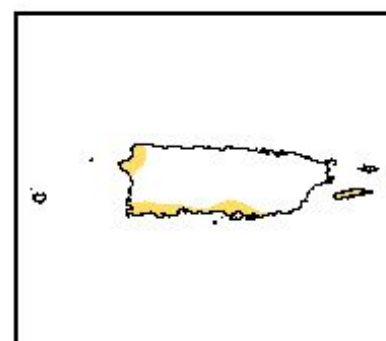
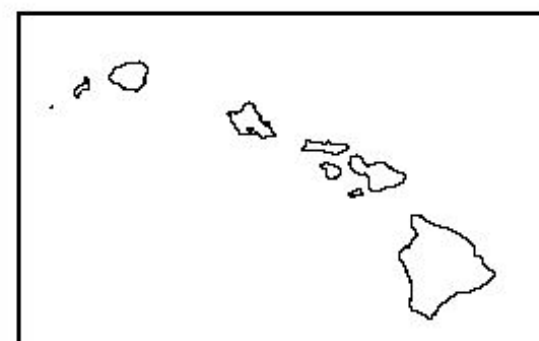
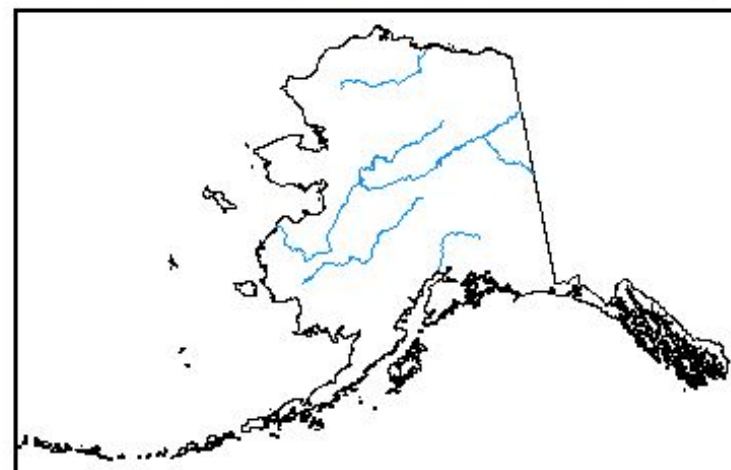


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:  
 Adam Allgood  
 NOAA/NWS/NCEP/Climate Prediction Center

- Drought persists
- Drought remains but improves
- Drought removal likely
- Drought development likely



<http://go.usa.gov/3eZ73>





# NWS Products and Services





## Early heads up of impending weather

- Prior to traditional watches and warning

To be added to partner email lists, email:

[nws.sacramento@noaa.gov](mailto:nws.sacramento@noaa.gov) or [courtney.carpenter@noaa.gov](mailto:courtney.carpenter@noaa.gov)

Weather Forecast Office  
Sacramento  
Friday, Oct 22, 2021

### Significant Rain and Snow this Weekend into Early Next Week

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**KEY POINTS**

- Periods of moderate to locally heavy rain could cause small stream and urban flooding
- Possible debris and ash flows on recently burned areas
- Breezy winds Sunday
- Winter Storm Watch in effect Sunday evening into Tuesday

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**CHANGES FROM PREVIOUS BRIEFING**

- Winter Storm Watch issued for Sunday night into early Tuesday
- Flood Watch in effect from Late Saturday night through Sunday

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**WEATHER RISK OUTLOOK**

Risk levels incorporate potential impacts from weather hazards and likelihood of occurrence.

	Fri 10/22	Sat 10/23	Sun 10/24	Mon 10/25	Tue 10/26	Wed 10/27	Thu 10/28
<b>Valley</b>	Rain	Rain	Rain/Wind	Rain	Rain	Rain	
<b>Foothills</b>	Rain/Debris Flows	Rain	Rain/Wind/Debris Flows	Rain	Rain	Rain	
<b>Mountains</b>	Rain/Debris Flows	Rain	Rain/Wind/Debris Flows	Snow	Snow	Rain	

Risk Levels	Little to None	Minor	Moderate	Major	Extreme
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**DETAILS**

**Valley, Foothills, Mountains**

Rain	<p><b>Impacts:</b></p> <ul style="list-style-type: none"> <li>• Moderate to heavy rain may lead to roadway ponding and minor flooding of poor drainage areas, creating difficult commute conditions</li> <li>• Periods of heavy rain with ash and debris flows possible on recently burned areas</li> </ul> <p><b>Timing:</b></p> <ul style="list-style-type: none"> <li>• Through this afternoon</li> </ul> <p><b>Confidence:</b></p> <ul style="list-style-type: none"> <li>• High</li> </ul>
Snow	<p><b>Impacts:</b></p> <ul style="list-style-type: none"> <li>• Mountain travel delays and chain controls possible</li> </ul> <p><b>Timing:</b></p> <ul style="list-style-type: none"> <li>• Friday</li> </ul> <p><b>Confidence:</b></p> <ul style="list-style-type: none"> <li>• Medium</li> </ul>

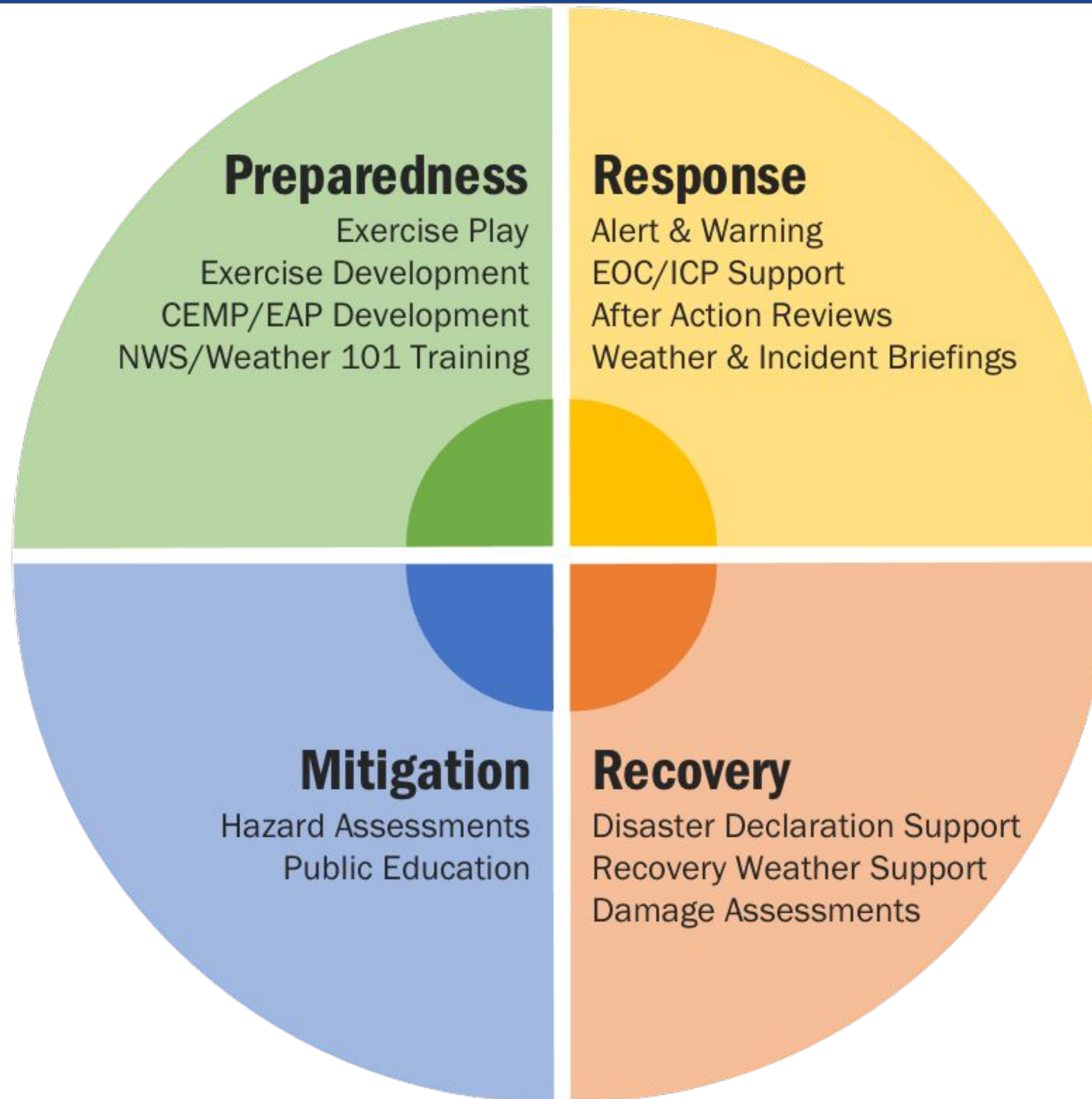
• Snow levels 7000 - 9000 feet decreasing through the day





# Other Available NWS Services

Weather Forecast Office  
Sacramento, CA  
Wednesday, February 22







# Questions?

Weather Forecast Office  
Sacramento, CA  
Wednesday, February 22

If you have questions, or want to be added to partner email list, please contact:

**NWS SACRAMENTO**

**[courtney.carpenter@noaa.gov](mailto:courtney.carpenter@noaa.gov)**

 **(916) 749 - 5187**

**A Forecaster can be reached 24/7**

 **(916) 979-3045 or [nws.sacramento@noaa.gov](mailto:nws.sacramento@noaa.gov)**