



# National Weather Service Winter Outlook 2021/2022



Lake Tahoe 10/14 – GeorgeRose.com

*Warning Coordination Meteorologist – Brian Garcia*



# National Weather Service Winter Outlook 2021/2022

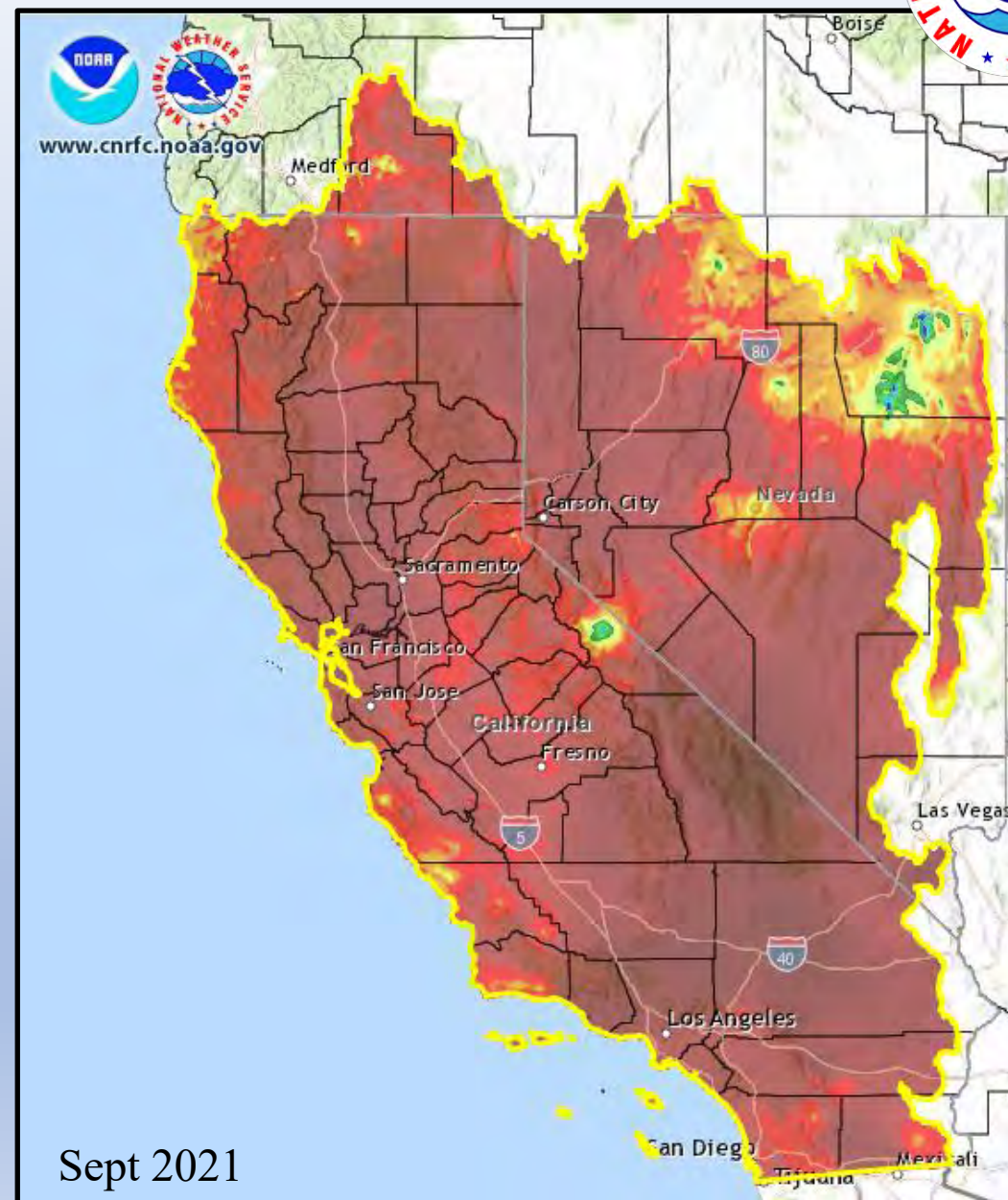
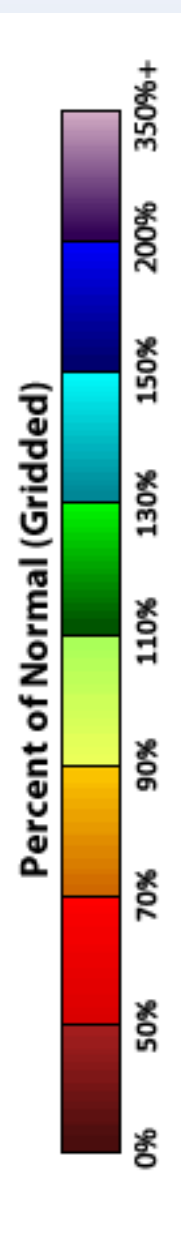
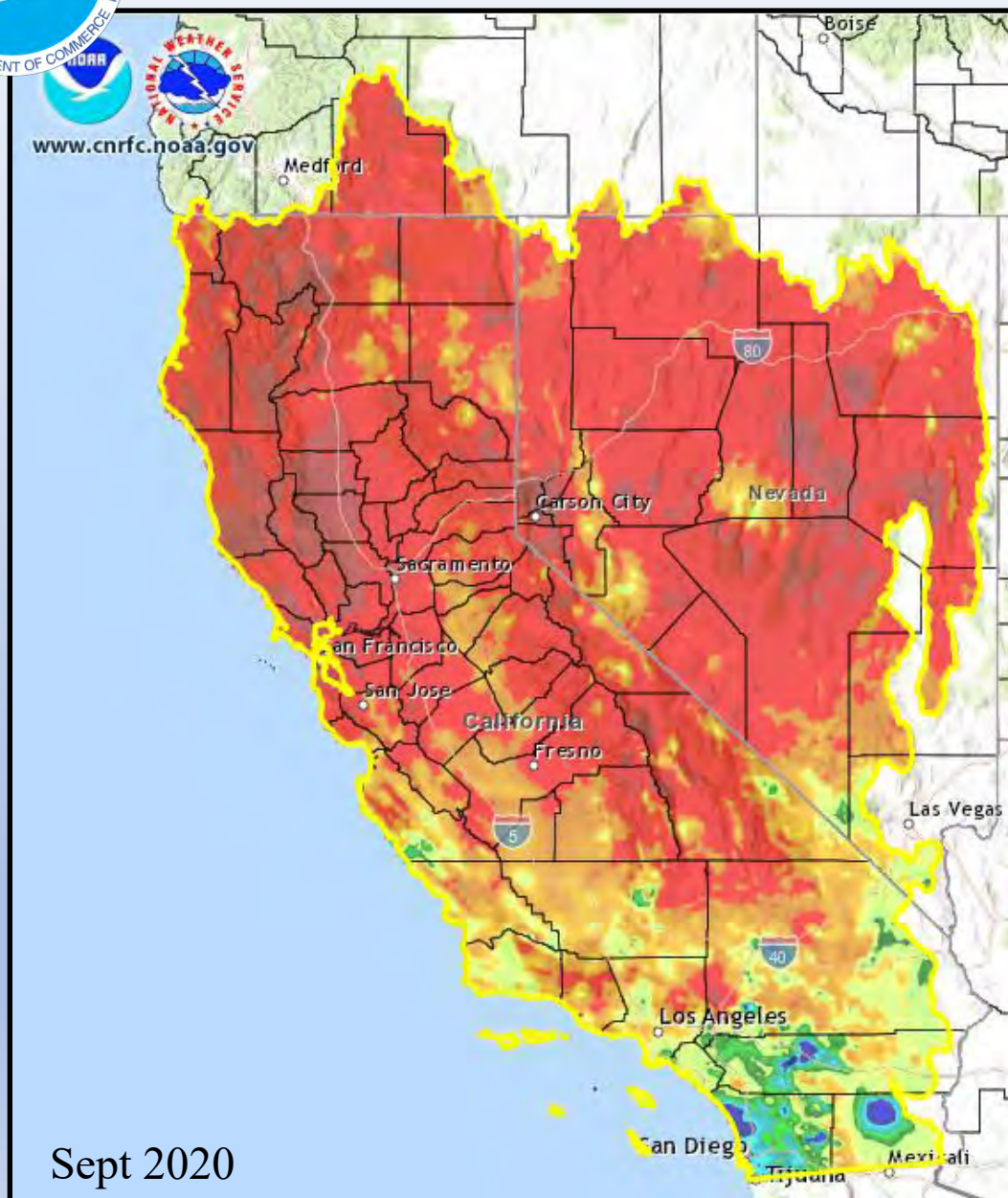


## Topics

- Winter 2020 / 2021
- Drought – current and forecast
- Burn Scars
- Winter Outlook
- Tools to Use



# Water Year's 2020 and 2021

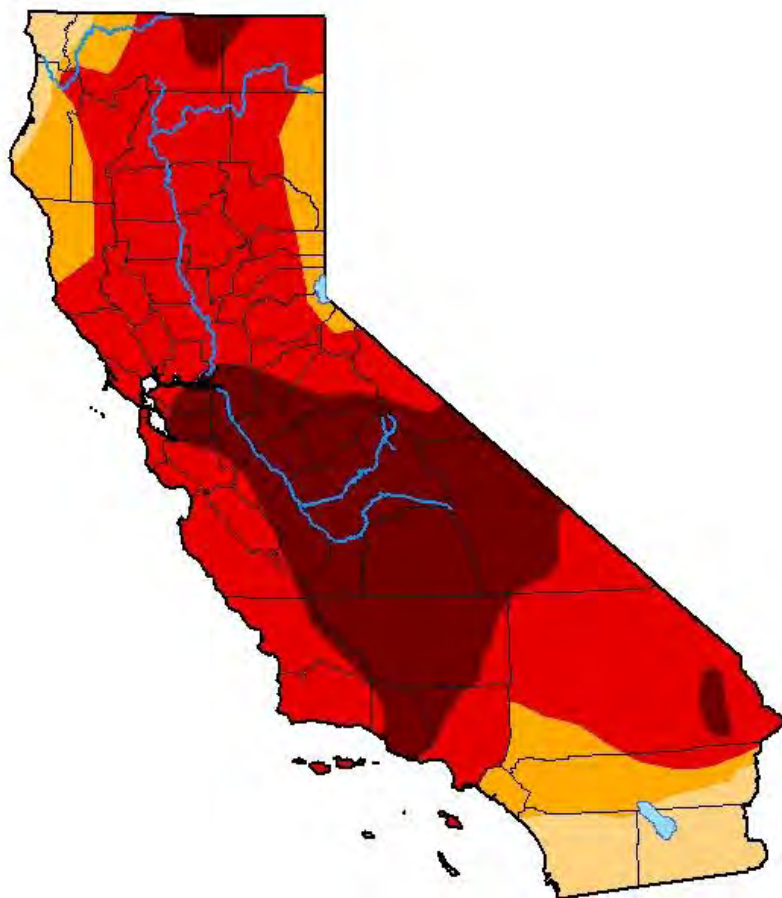




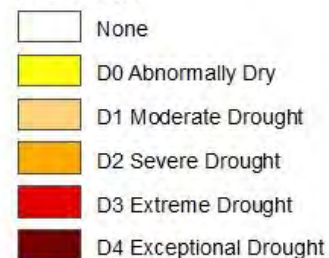
# Drought: Current

## U.S. Drought Monitor California

**November 23, 2021**  
(Released Wednesday, Nov. 24, 2021)  
Valid 7 a.m. EST



### Intensity:



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>

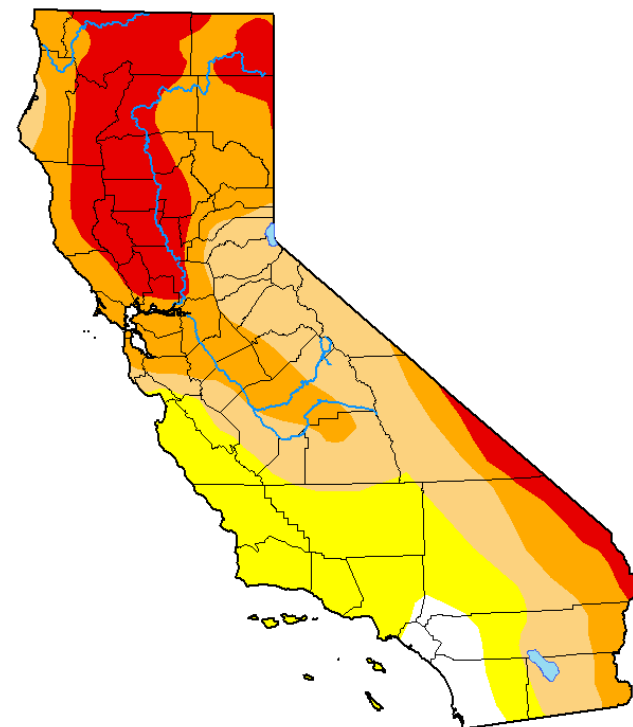
### Author:

Richard Heim  
NCEI/NOAA



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

November 24, 2020





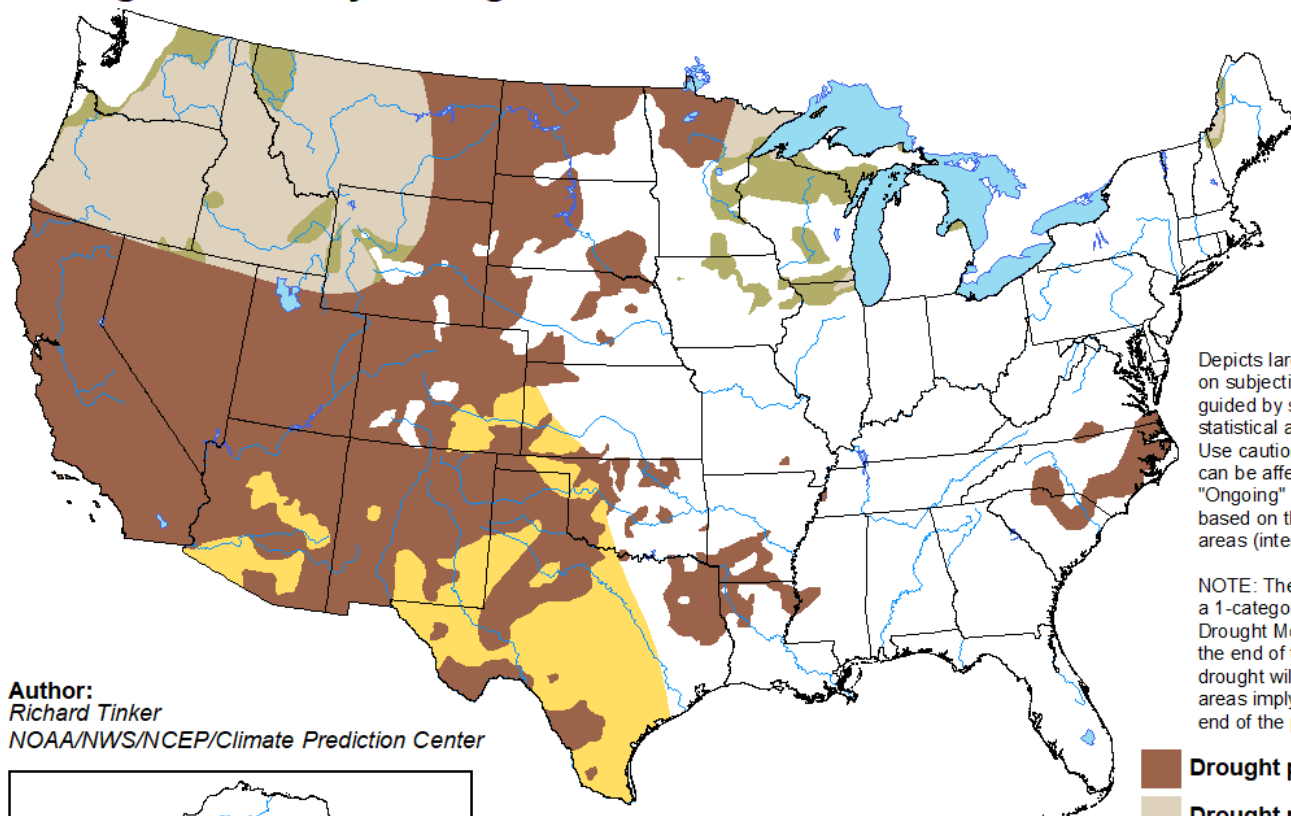
# Drought: Forecast

## U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for November 18, 2021 - February 28, 2022

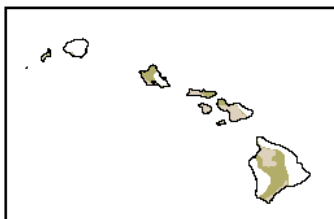
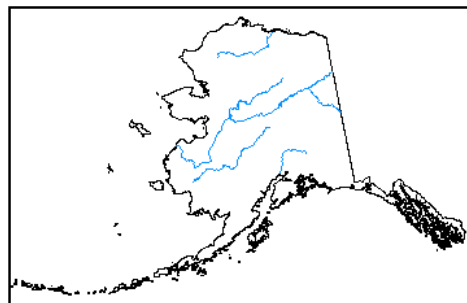
Released November 18, 2021







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:  
Richard Tinker  
NOAA/NWS/NCEP/Climate Prediction Center



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



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

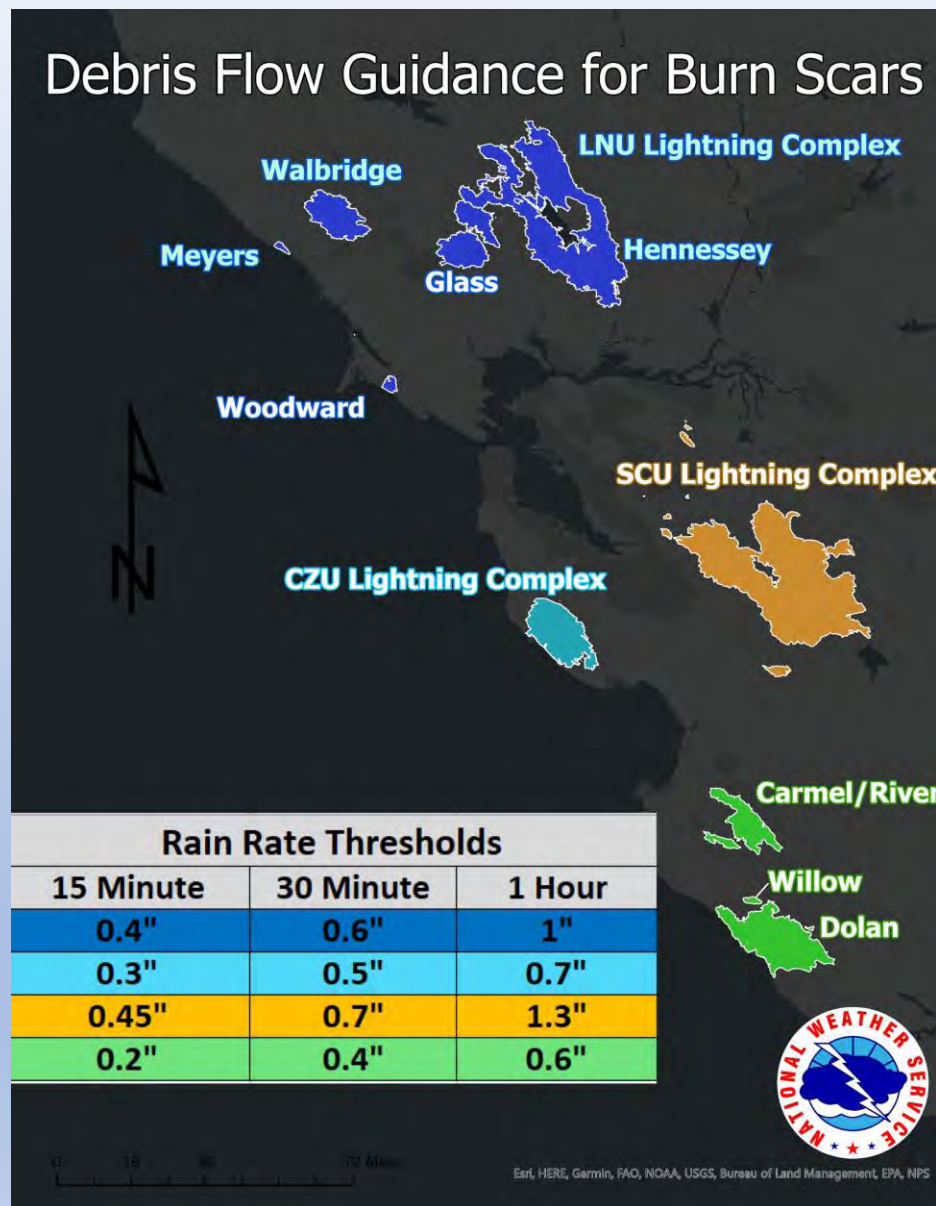


# Burn Scars – Post Wildfire Debris Flows





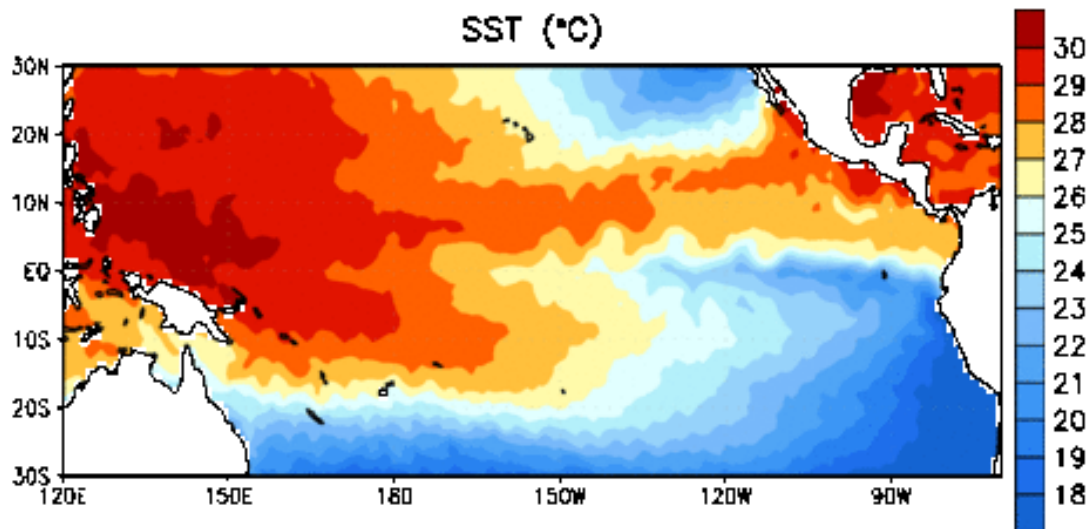
# Burn Scars – Post Wildfire Debris Flow Thresholds



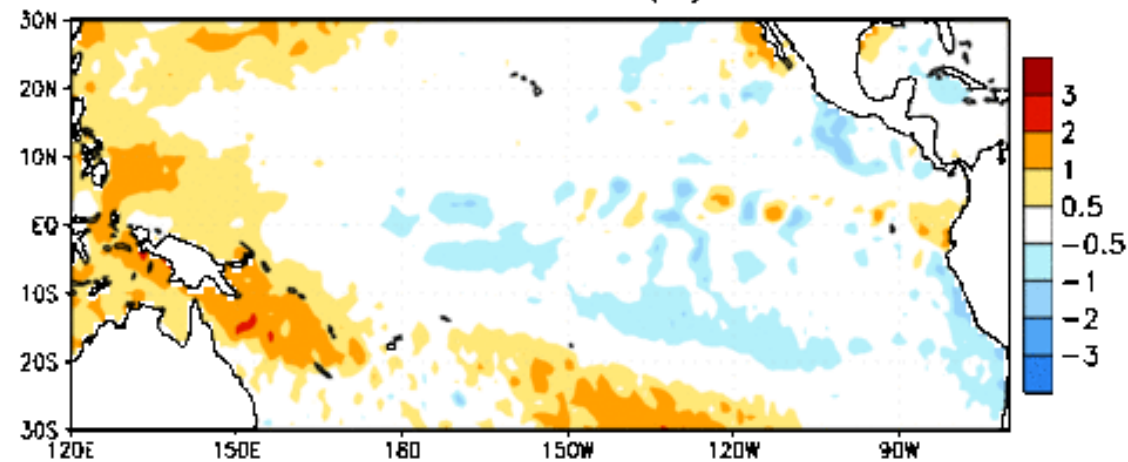


# National Weather Service Winter Outlook 2021/2022

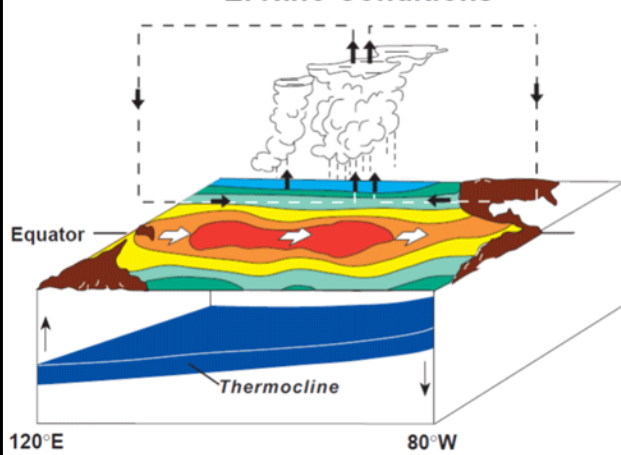
Week centered on 01 SEP 2021  
SST (°C)



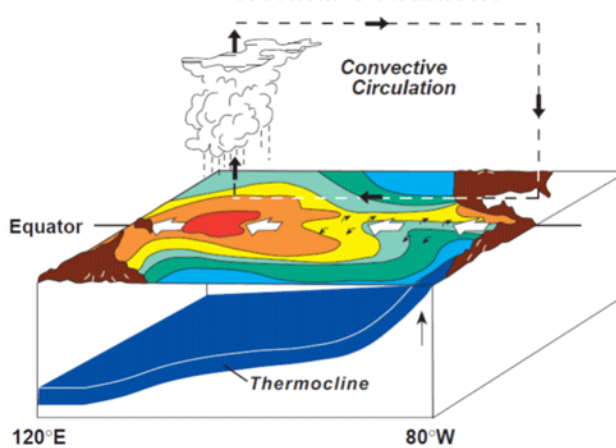
Week centered on 01 SEP 2021  
SST Anomalies (°C)



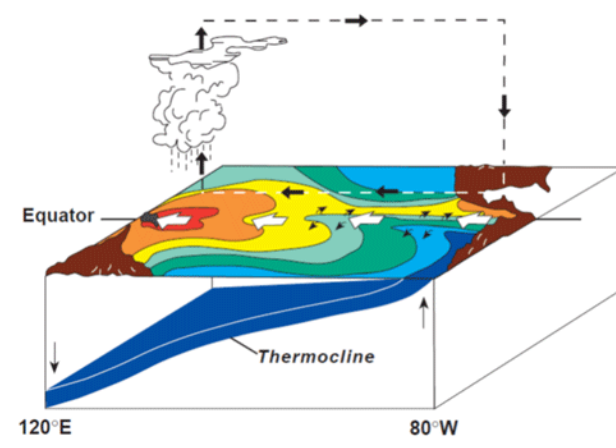
El Niño Conditions



Normal Conditions

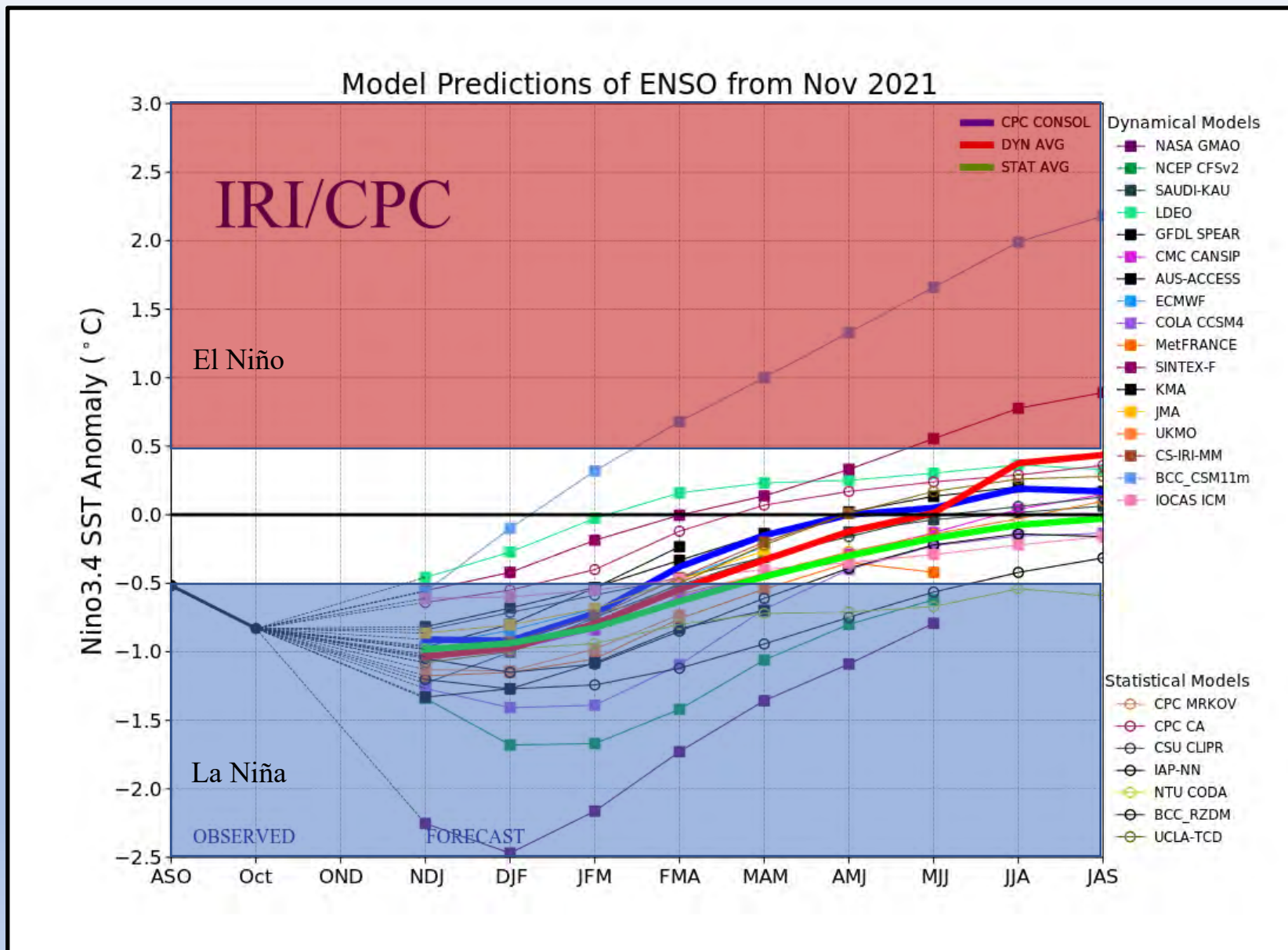


La Niña Conditions





# National Weather Service Winter Outlook 2021/2022





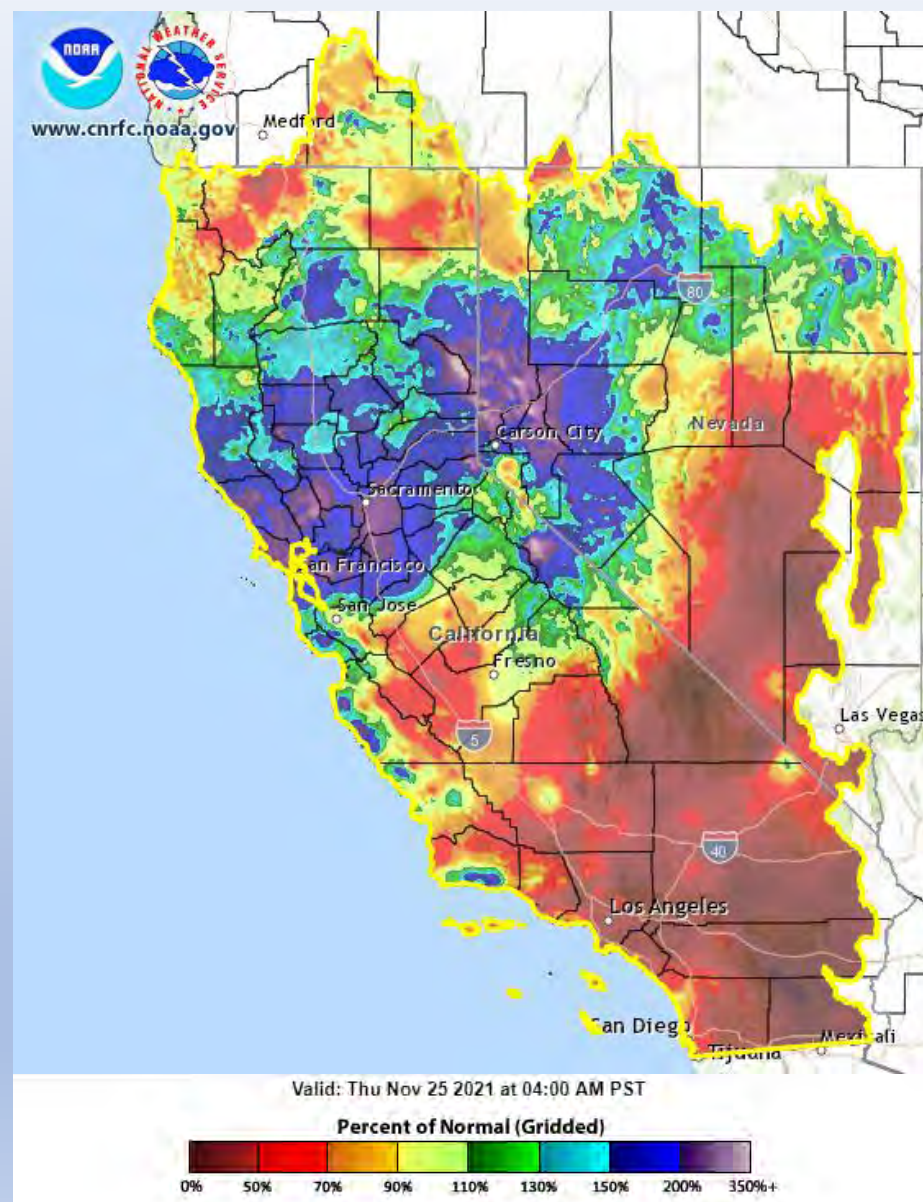
# National Weather Service Winter Outlook 2021/2022

## La Niña Advisory





# Water Year 2022...so far



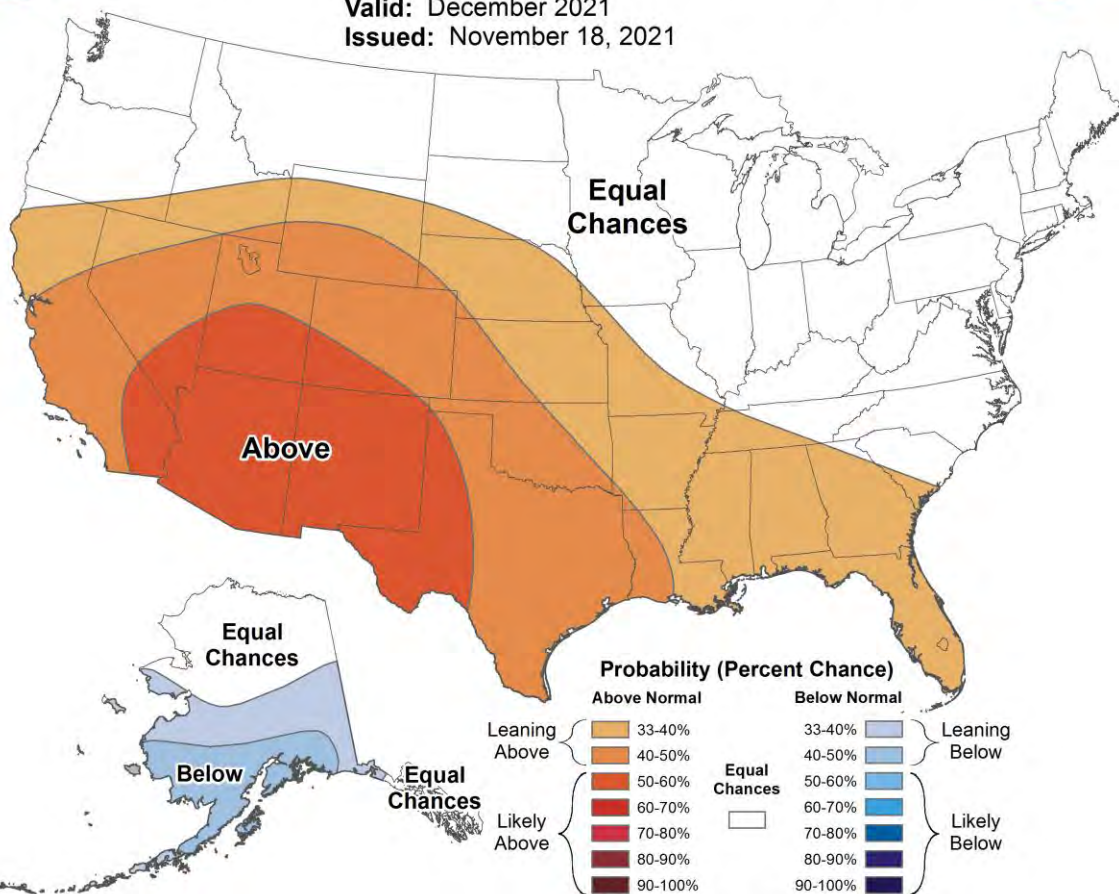


# National Weather Service Winter Outlook 2021/2022



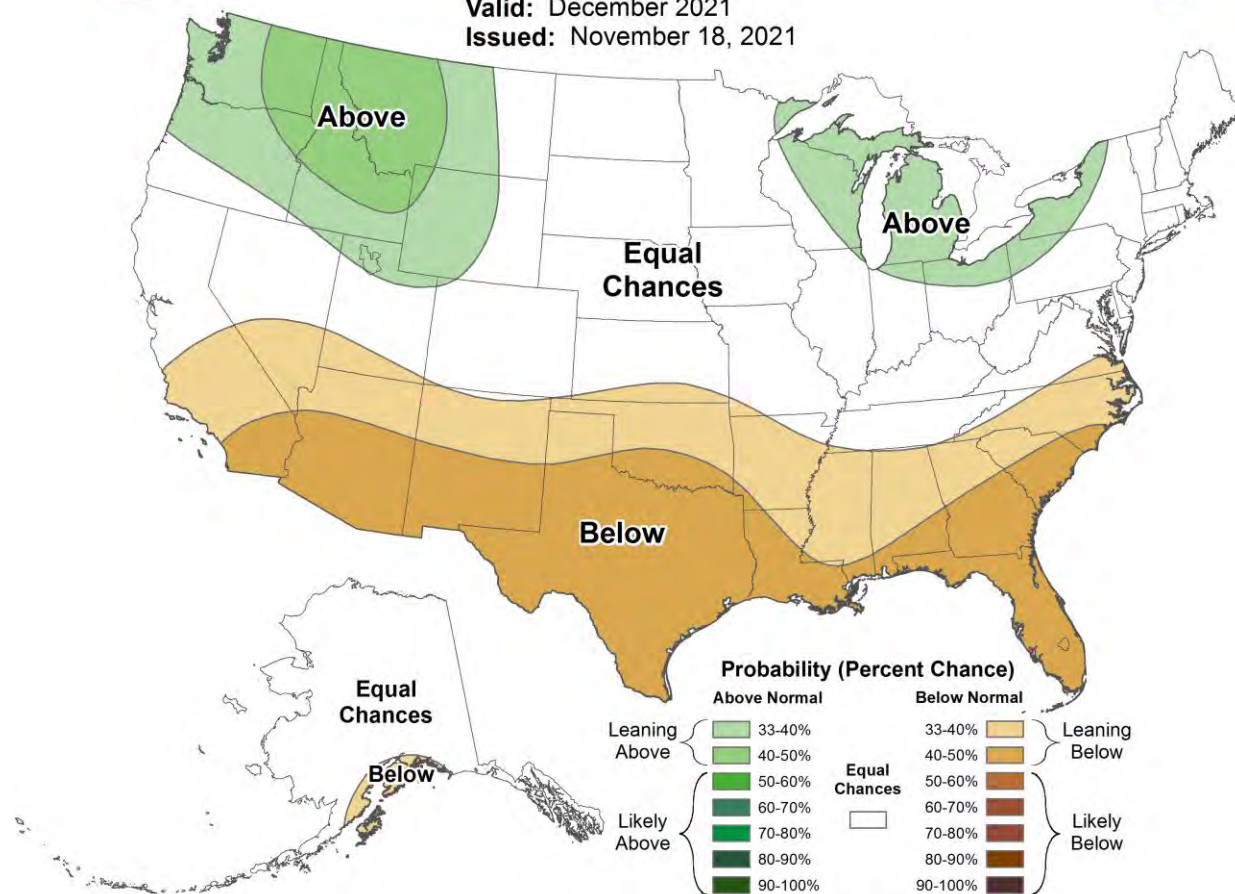
## Monthly Temperature Outlook

Valid: December 2021  
Issued: November 18, 2021



## Monthly Precipitation Outlook

Valid: December 2021  
Issued: November 18, 2021





# National Weather Service Winter Outlook 2021/2022

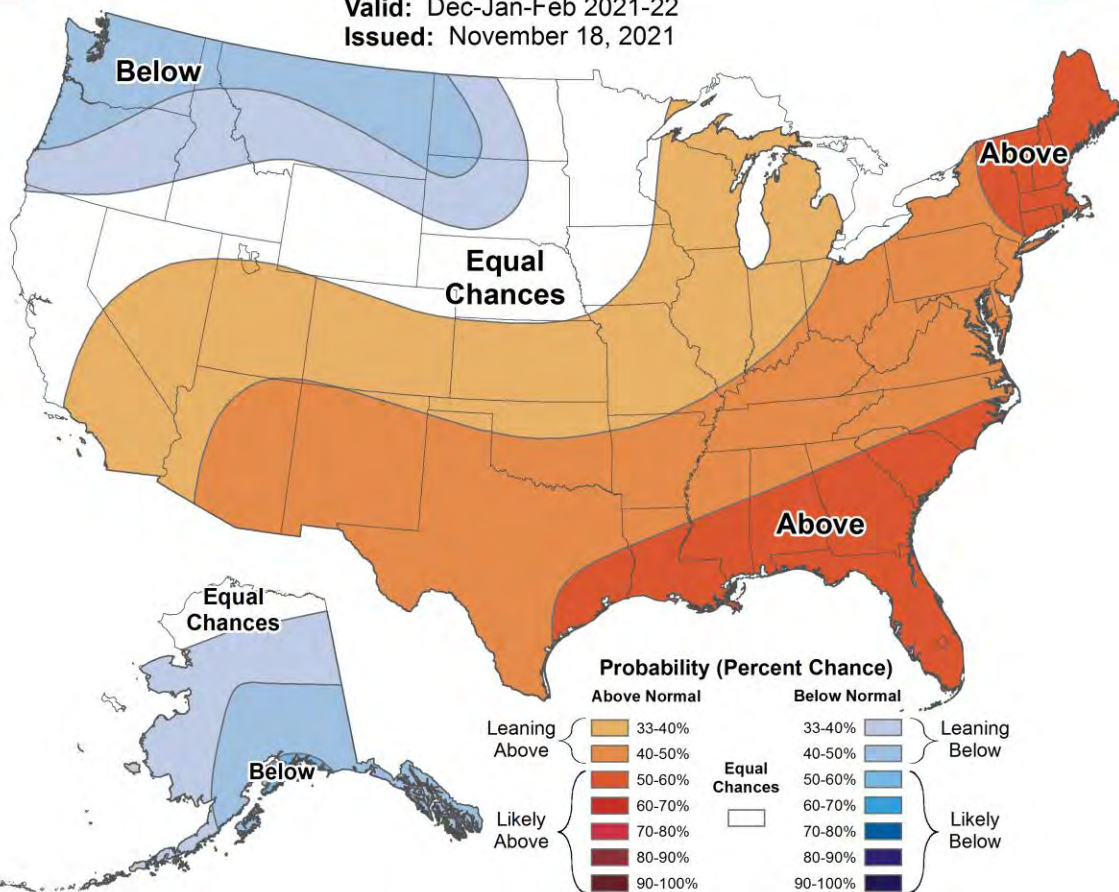


## Seasonal Temperature Outlook



Valid: Dec-Jan-Feb 2021-22

Issued: November 18, 2021

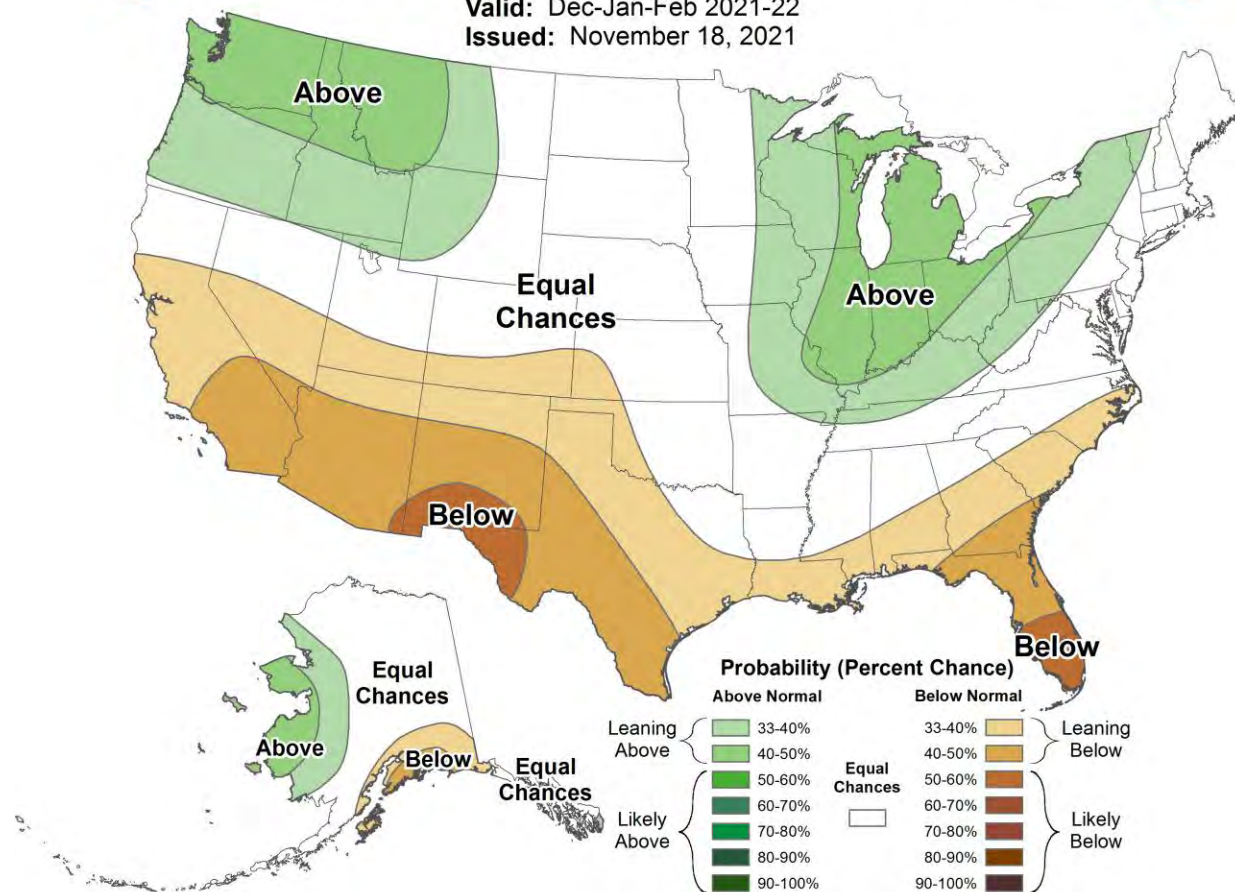


## Seasonal Precipitation Outlook



Valid: Dec-Jan-Feb 2021-22

Issued: November 18, 2021





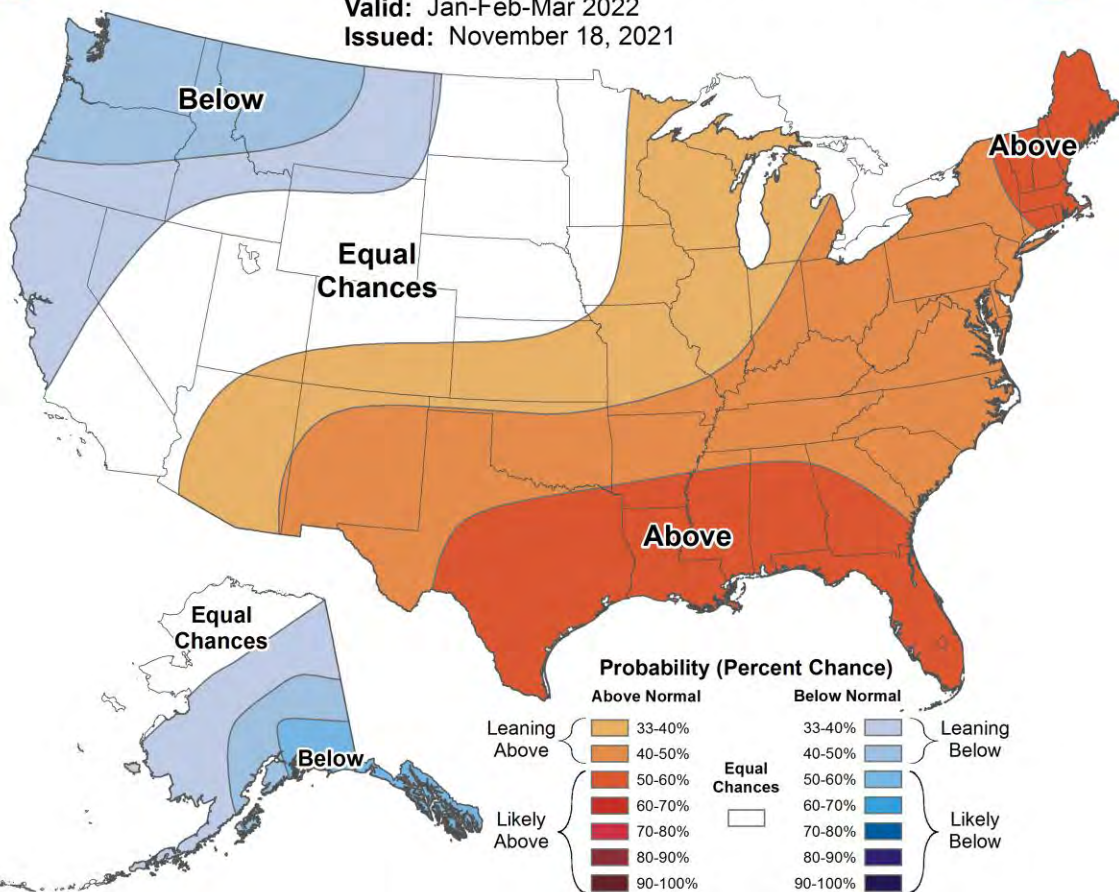
# National Weather Service Winter Outlook 2021/2022



## Seasonal Temperature Outlook



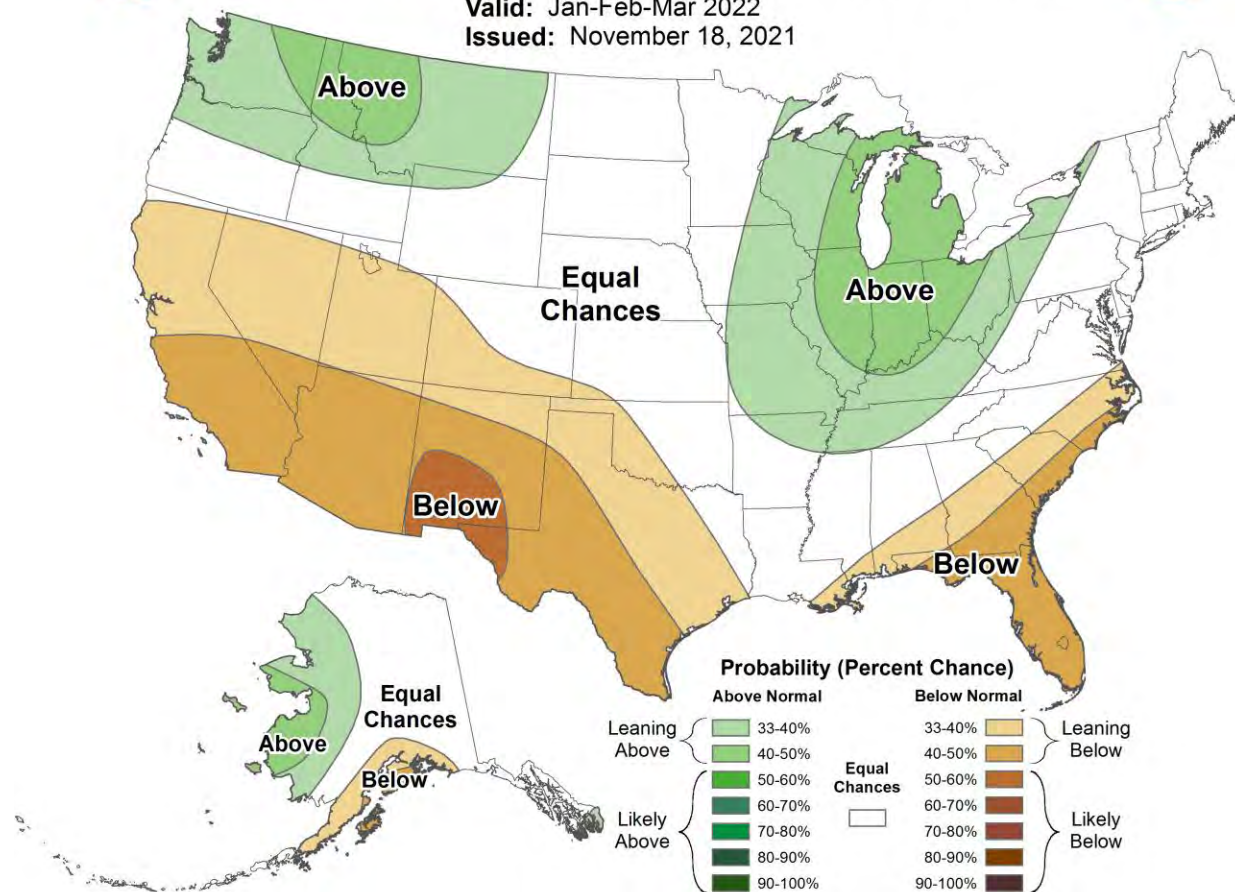
Valid: Jan-Feb-Mar 2022  
Issued: November 18, 2021



## Seasonal Precipitation Outlook



Valid: Jan-Feb-Mar 2022  
Issued: November 18, 2021





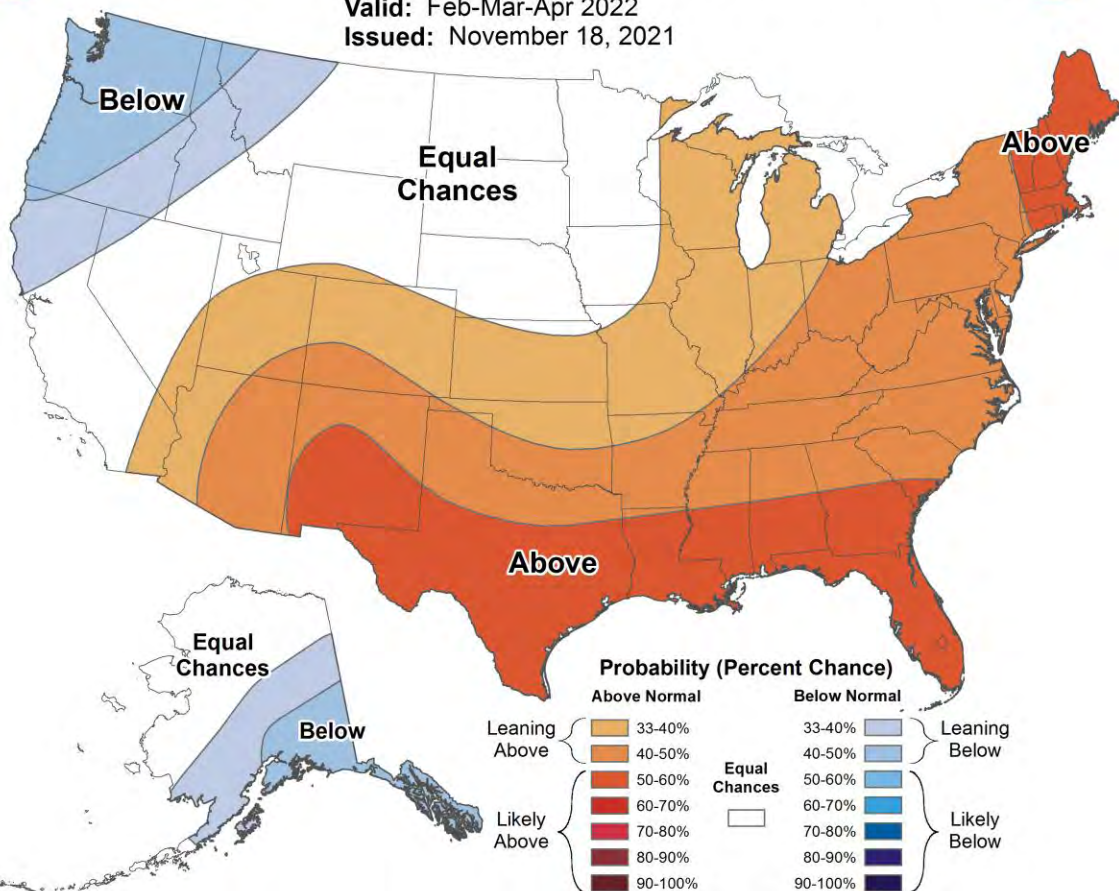
# National Weather Service Winter Outlook 2021/2022



## Seasonal Temperature Outlook



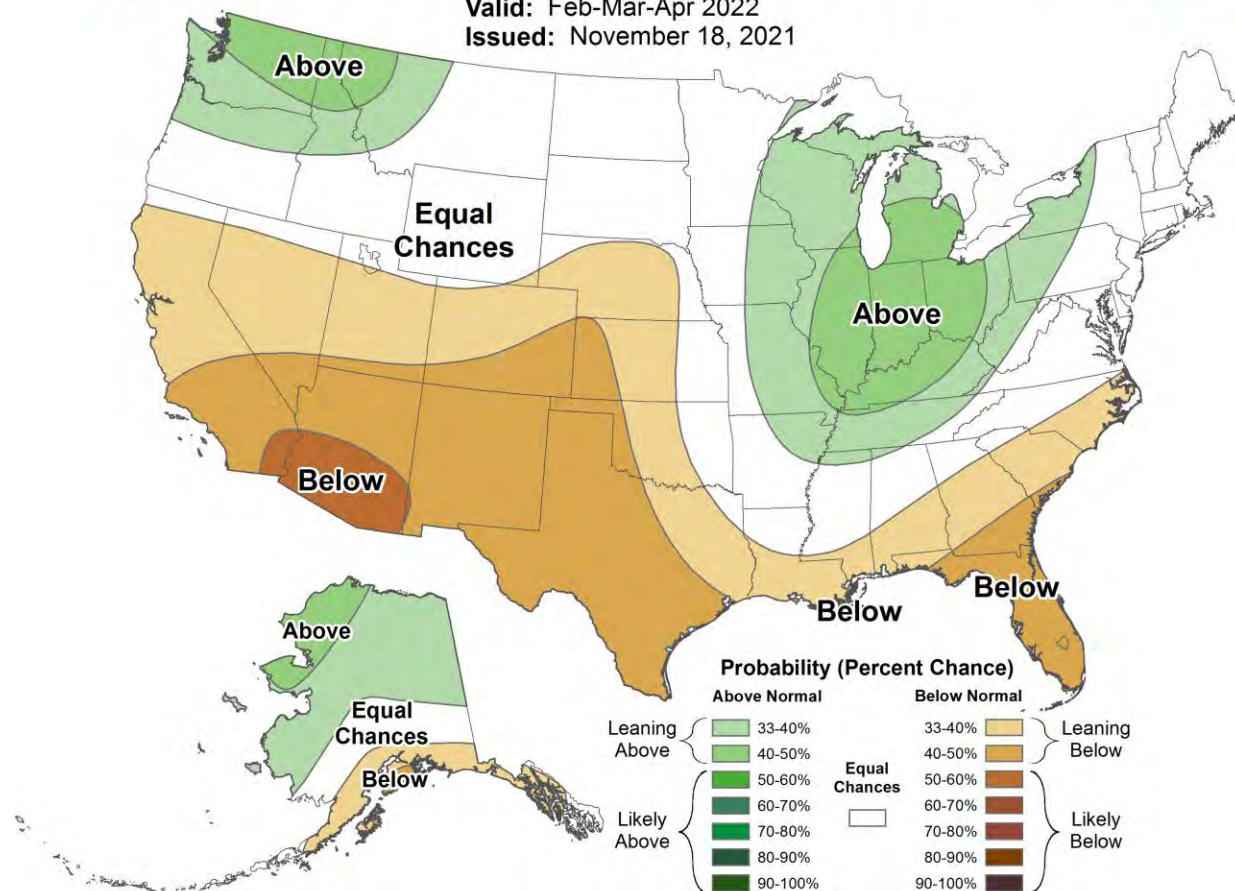
Valid: Feb-Mar-Apr 2022  
Issued: November 18, 2021



## Seasonal Precipitation Outlook



Valid: Feb-Mar-Apr 2022  
Issued: November 18, 2021





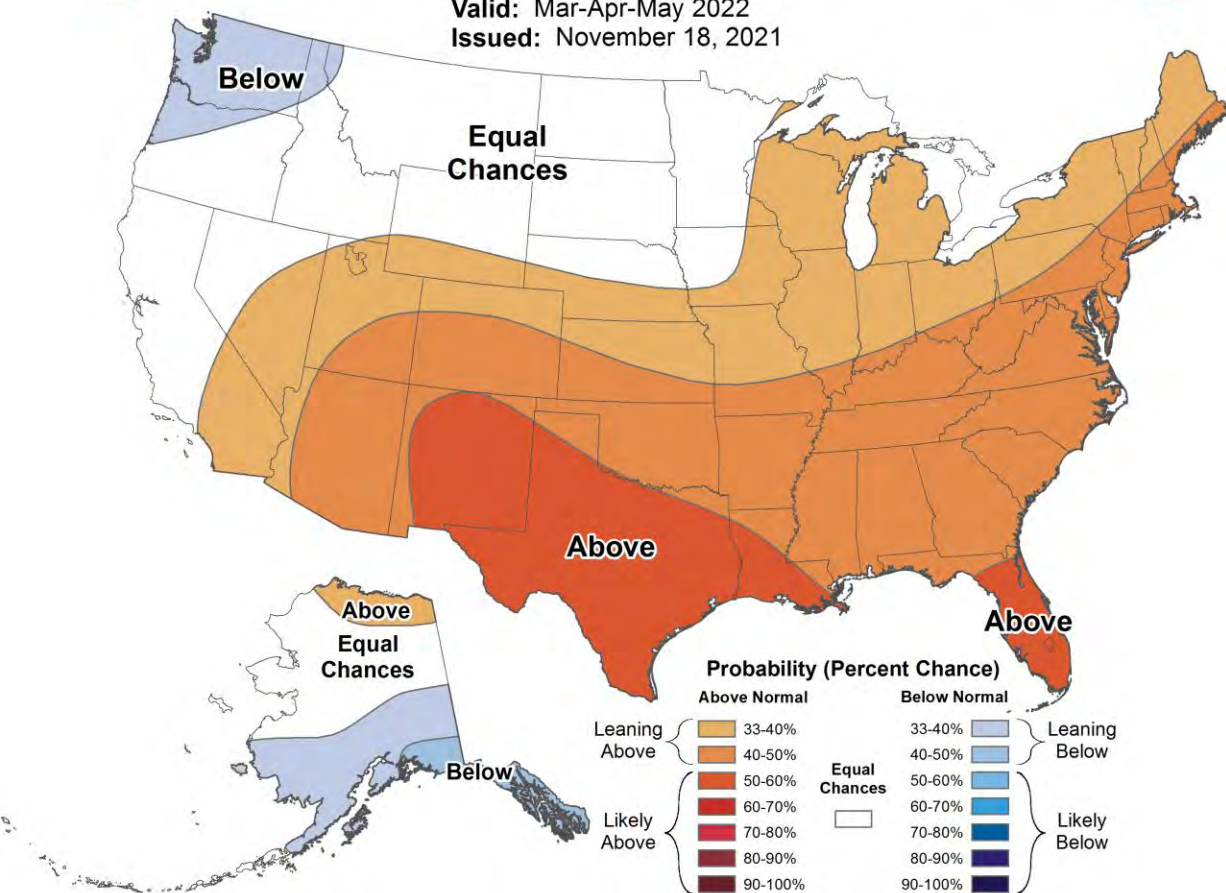
# National Weather Service Winter Outlook 2021/2022



## Seasonal Temperature Outlook



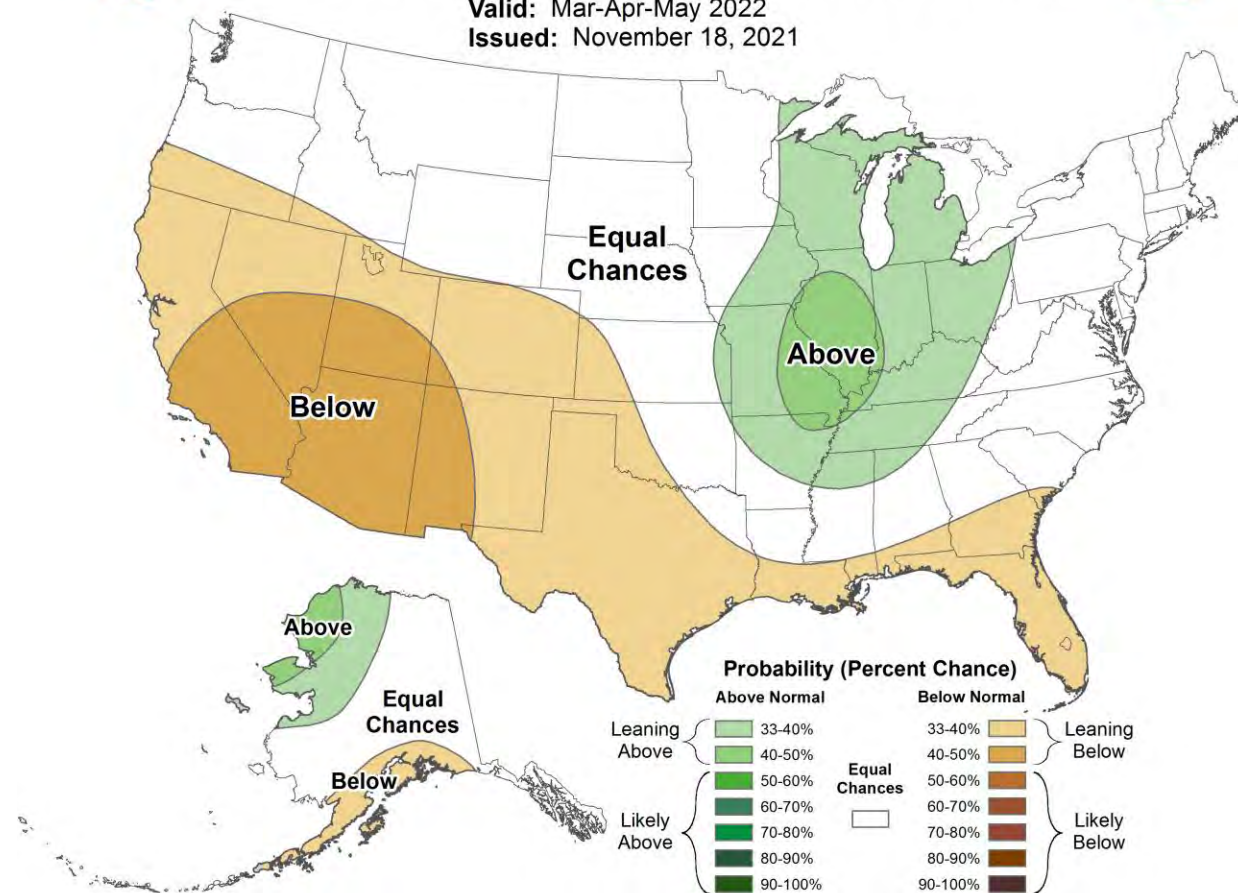
Valid: Mar-Apr-May 2022  
Issued: November 18, 2021



## Seasonal Precipitation Outlook



Valid: Mar-Apr-May 2022  
Issued: November 18, 2021





# National Weather Service Winter Outlook 2021/2022




## Tools You Can Use

- NWS Webpages
- Social Media
- Email Briefings
- iNWS



# Tools



## NATIONAL WEATHER SERVICE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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### Wet Weather Pattern in the West; Severe Storms in the Eastern U.S.

A number of Pacific storm systems will bring excessive rainfall, strong winds, and mountain snow to the West U.S. These systems may cause burn scar flooding impacts. Severe thunderstorms may impact the Ohio/Tennessee Valleys into Central/Southern Appalachians, and a portion of west Texas on Thursday. [Read More >](#)

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### NWS Forecast Office San Francisco, CA

[Weather.gov](#) > San Francisco Bay Area, CA

San Francisco Bay Area, CA  
Weather Forecast Office

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Click a location below for detailed forecast.



Watches, Warnings & Advisories

Flash Flood Watch

Gale Warning

Small Craft Advisory



Special Weather Statement

Zoom Out

Last Map Update: Wed, Oct. 20, 2021 at 10:21:27 pm PDT



# Tools



## CALIFORNIA NEVADA RIVER FORECAST CENTER

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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### NOAA / NWS News and Local CNRFC Information

**2022 Tide Tables Available** - The 2022 tide tables are now available on our [river forecast page](#).

**CNRFC Daily Briefing** - View a [graphical summary](#) of current & forecast weather & hydrologic conditions. Updated by 10 AM PT.

**NORMAL**

All River Guidance (Flood Forecast) Points Are Currently and Forecast to Remain Below Critical Stages

**NORMAL**

Recently-Issued CNRFC Text Products:


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**Geographic Overlays**

☒ CNRFC Boundary ☐ States ☐ Counties ☐ Lakes ☐ Rivers  
☐ Drainage Basins ☐ National Parks ☐ Burn Areas 2021 ☐ 2020 ☐ 2019 ☐ 2018



Markers: 100

[Rivers/Reservoirs](#)

[Water Resources](#)

[Snow Data](#)

[Observed Precipitation \(QPE\)](#)

[Forecast Precipitation \(QPF\)](#)

[Observed Temperatures](#)

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[Flash Flood Guidance/Debris Flow](#)

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# Tools



**NWS Eureka** ✓  
@NWSEureka

Official Twitter account for the National Weather Service Eureka, California. Details: [weather.gov/twitter](https://weather.gov/twitter)

📍 Eureka, California 🌐 [weather.gov/eureka](https://weather.gov/eureka) 📅 Joined May 2012

210 Following 12K Followers

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**NWS Bay Area** ✓  
@NWSBayArea

Official Twitter account for the National Weather Service San Francisco Bay Area. Details: [weather.gov/twitter](https://weather.gov/twitter) ✓

📍 San Francisco, CA 🌐 [weather.gov/sanfrancisco/](https://weather.gov/sanfrancisco/) 🕒 Born February 9, 1900 📅 Joined June 2012

526 Following 115.4K Followers

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**NWS Los Angeles** ✓  
@NWSLosAngeles

Official Twitter account for the National Weather Service Los Angeles. Details: [weather.gov/twitter](https://weather.gov/twitter) ✓

📍 Oxnard, CA 🌐 [weather.gov/losangeles](https://weather.gov/losangeles) 📅 Joined June 2012

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# Tools



## Unsettled Weather Pattern Prevails

### National Weather Service - SF Bay Area/Monterey

Issued: 3:00 PM PDT Tuesday, October 19, 2021

Point of Contact: NWS Operations (24/7) EM: 831-656-1717 | Media: 831-656-1724

#### KEY POINTS

- Wind Advisory from 8 pm tonight lasting until 4 am Wednesday for gusty southerly winds along the coastline and in the valley's of the North Bay and Bay Area.
- Next chance for rain is Tuesday night into Wednesday morning as the next front pushes through
  - Strong southerly winds with the chance for Gale Force gusts over the waters
- Secondary system with more rain arriving Thursday
- Potential Atmospheric River next Sunday

#### CHANGES FROM PREVIOUS BRIEFING

*Second Issuance. Wind Advisory tonight for gusty southerly winds in lower elevations of the Bay Area and North Bay.*

#### CONFIDENCE AND DETAILS

##### Tuesday Night into Wednesday

###### HIGH Confidence

- Strong and gusty southerly winds tonight along the coastline and around the valley's of the North Bay and Bay Area.
- Widespread rain from the North Bay down the Central Coast

###### MODERATE Confidence


- Timing: Rain will likely approach the North Bay late Tuesday night, reaching the Central Coast early Wednesday morning
- Higher rainfall totals compared to this past weekend's rain



# Tools

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## iNWS - Interactive NWS

National Weather Service Mobile Decision Support Services (MDSS)

### iNWS MOBILE ALERTING

Receive customized text message and e-mail alerts for National Weather Service products that you care about.



### Welcome

InteractiveNWS (iNWS) is the home of new mobile and desktop innovations of the National Weather Service. This application suite allows NWS partners to receive National Weather Service products in new and innovative ways, such as text messaging and mobile-enabled webpages. iNWS strives to fulfill our mission of protecting life and property by using technology to reach out to our customers.

### Recent News

**Note:** If you are receiving alerts, but never signed up for them, they may be coming from a new FEMA public system called the Wireless Emergency Alerts (WEA). More information can be found at [Wireless Emergency Alerts Consumer Guide](#)

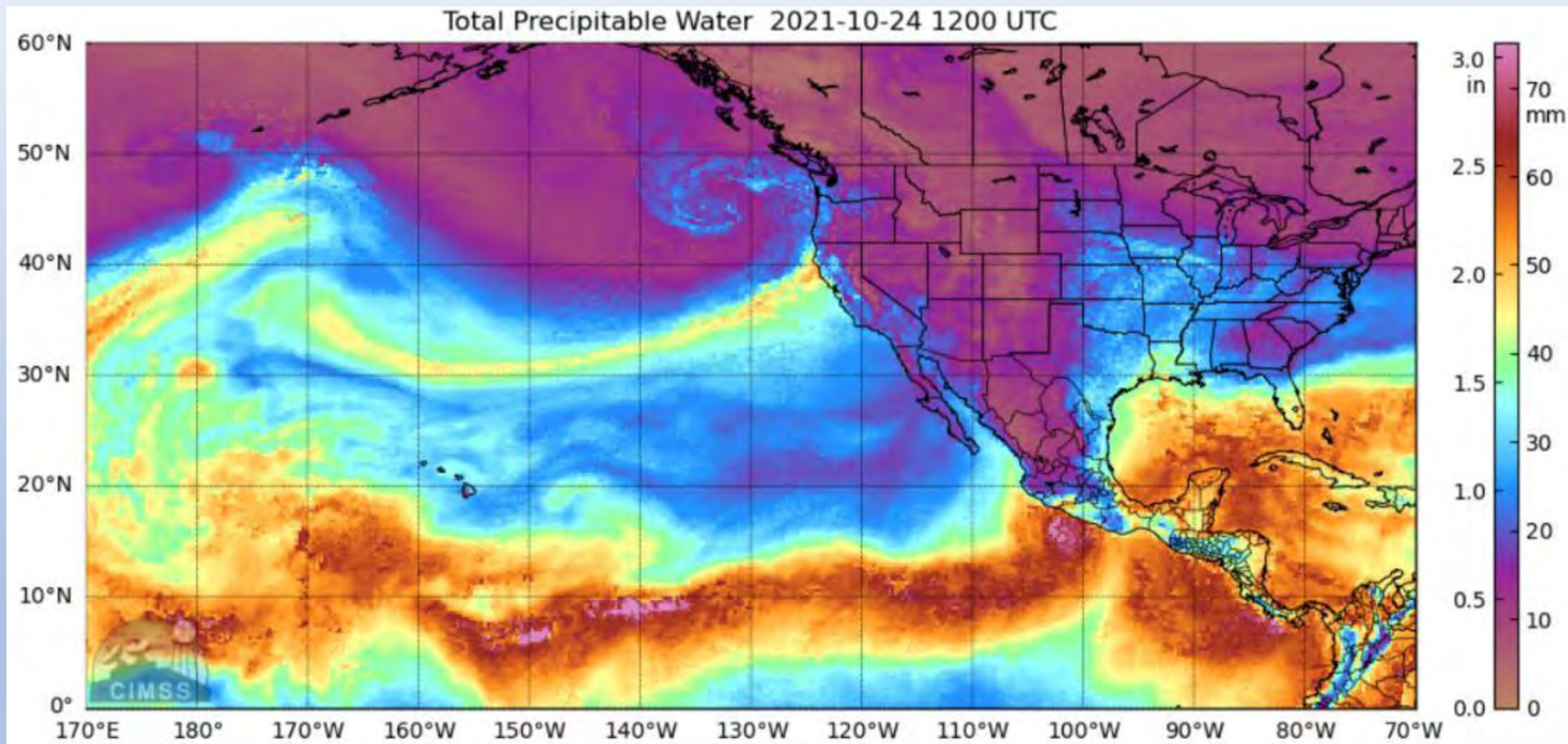
iNWS is an experimental service intended for NWS core partners: emergency managers, community leaders, other government agencies and the electronic media.

DOC | NOAA | National Weather Service - iNWS Version 6.5.2

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# Atmospheric Rivers or Pineapple Express



## Atmospheric Rivers



# National Weather Service Winter Outlook 2021/2022



Press Democrat

Warning Coordination Meteorologist – [brian.garcia@noaa.gov](mailto:brian.garcia@noaa.gov)