

Significant Weather Observation Program

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October 27, 2022

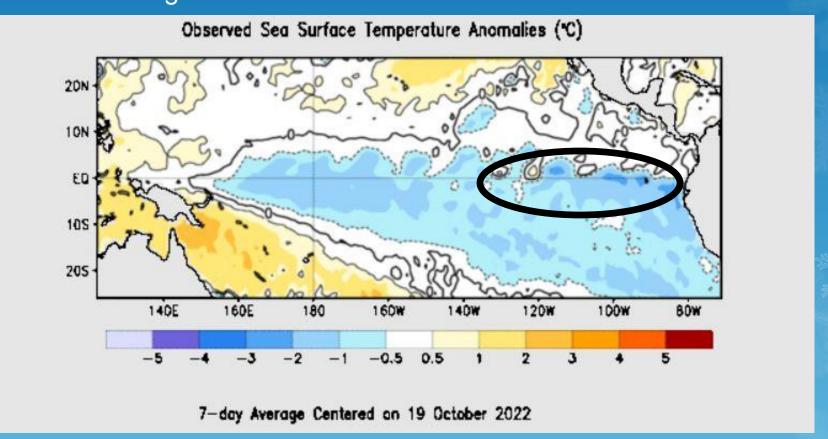
Matt Barnes

Winter 2022-2023 Outlook





We're heading into another La Nina winter







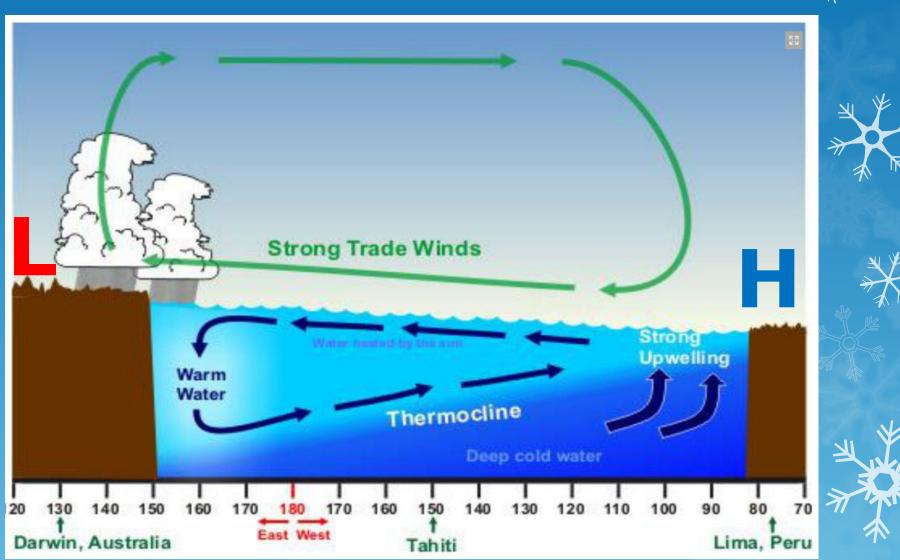


Below normal sea surface temperatures in the Equatorial Pacific



How Does La Nina Work?









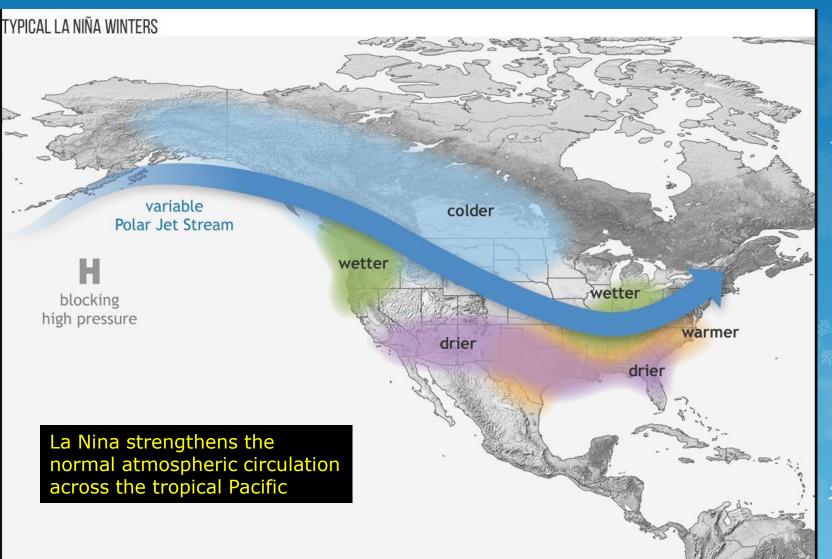






Typical La Nina Winter Pattern





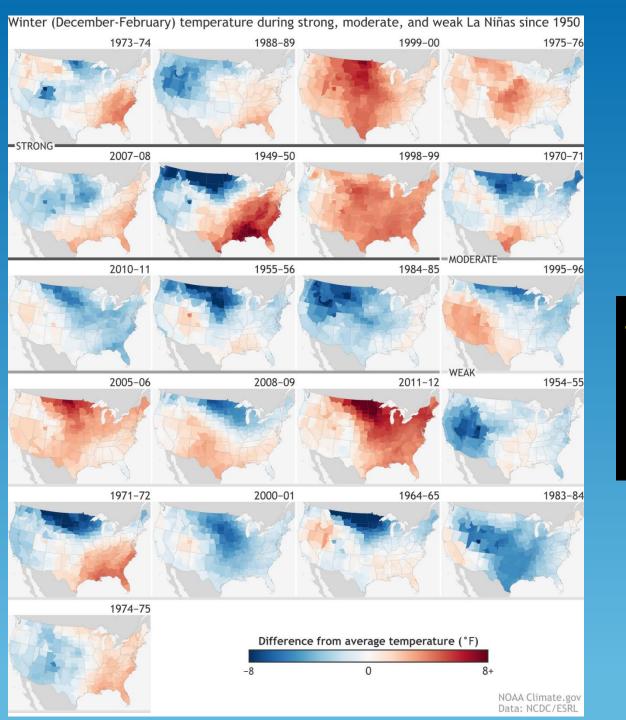


















KEY POINT:

Other shorter-term atmospheric circulations play a much larger role in our winter weather than La Nina





Other Influencing Factors



• Arctic Oscillation (AO): pressure pattern over the Arctic (Will cold air come south?)

When AO is negative: Higher pressure over the North Pole drives cold airmasses southward



North Atlantic Oscillation (NAO): pressure pattern over North Atlantic (What trajectory will the cold air take?)

When NAO is negative: a highly amplified upper pattern develops that allows cold airmasses to drop due southward into the eastern U.S.



To monitor the latest AO and NAO phases, go to:

https://www.cpc.ncep.noaa.gov/



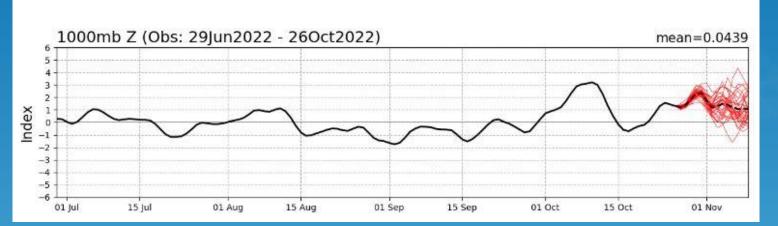


Current Phases







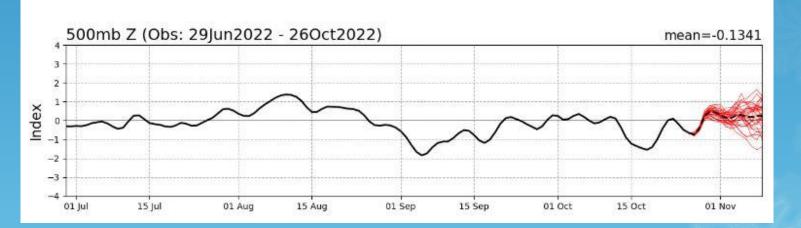








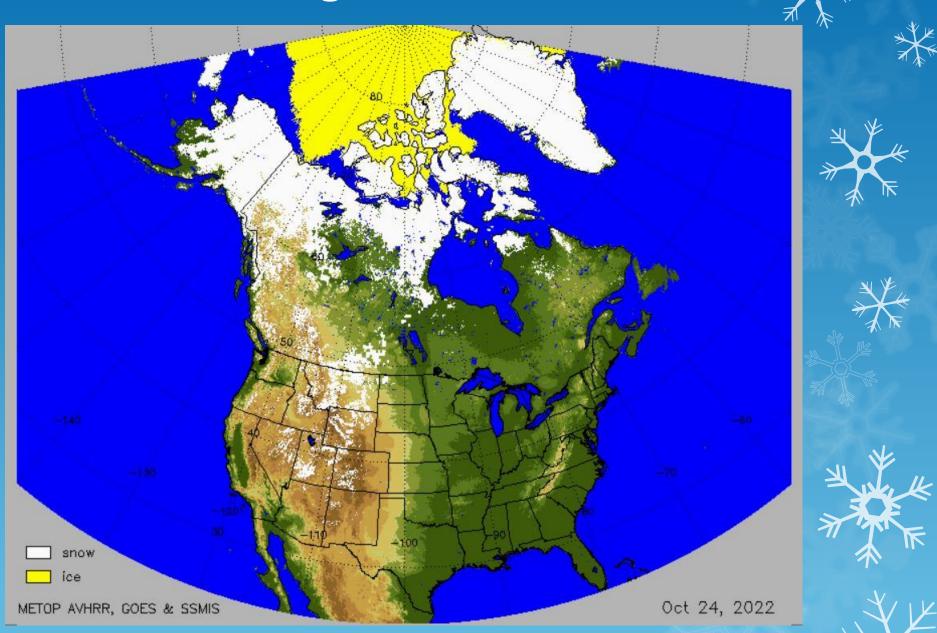
NAO Index: Observed & GEFS Forecasts







Other Influencing Factors



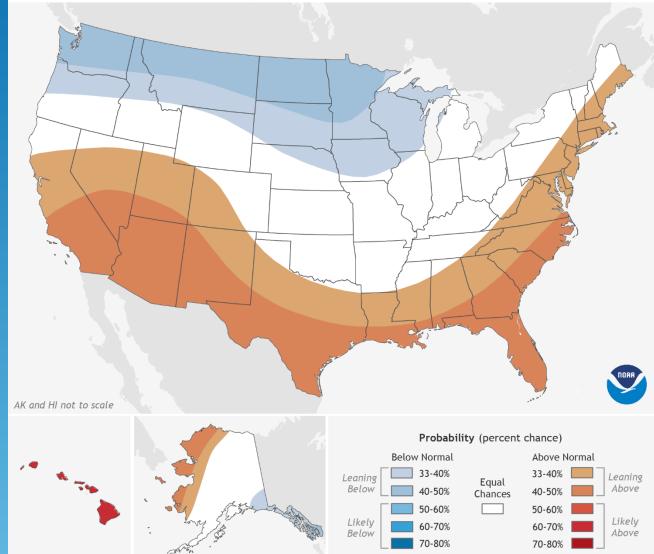






Winter 2022-2023 Outlook





Temperature Outlook for December 2022 - February 2023 Issued 20 October 2022 NWS Climate Prediction Center Map by NOAA Climate.gov





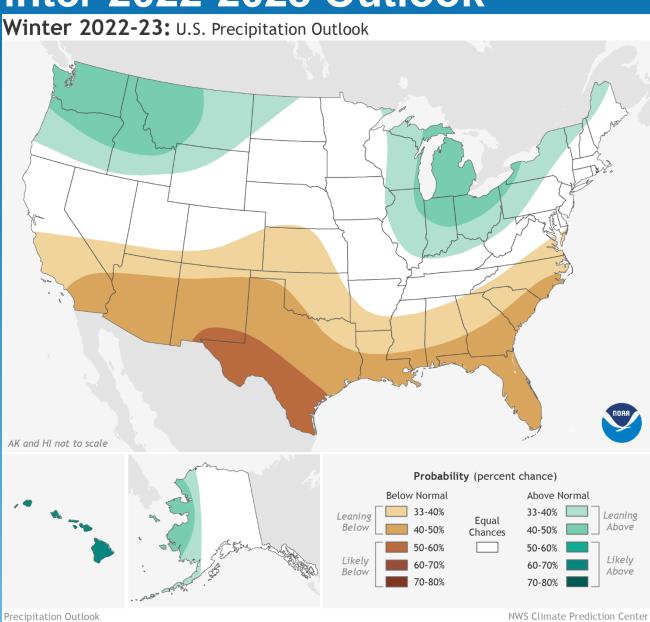








Winter 2022-2023 Outlook















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Map by NOAA Climate.gov

The Bottom Line



• Look for plenty of the usual "ups and downs" of winter



Trend toward above normal precipitation. More snow?



There will be heavy snow and ice events...so the main take-away is to be prepared for anything





