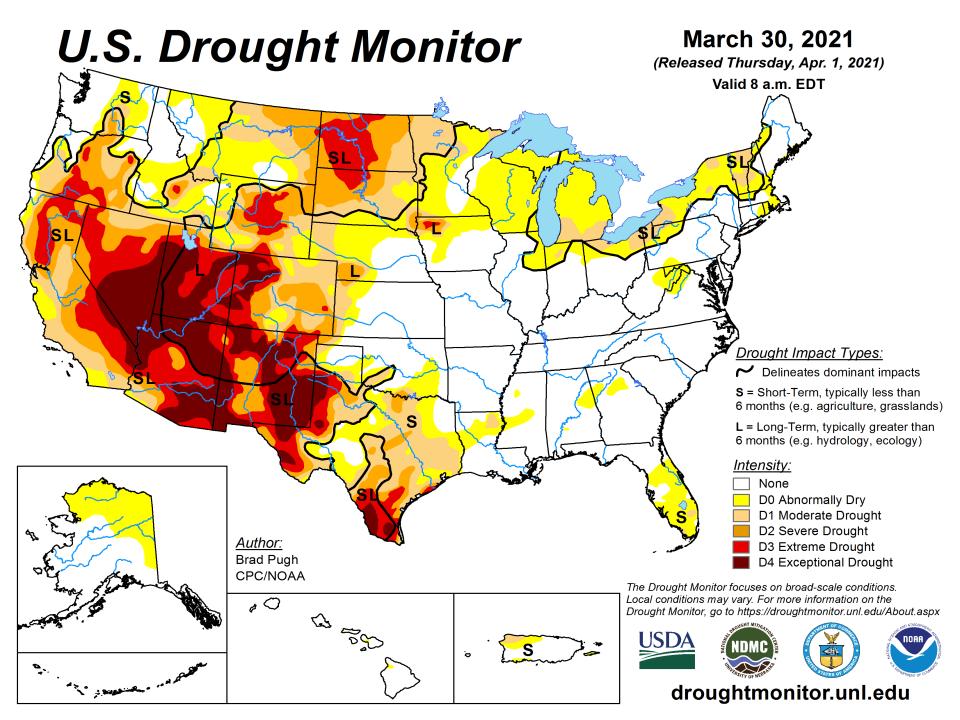
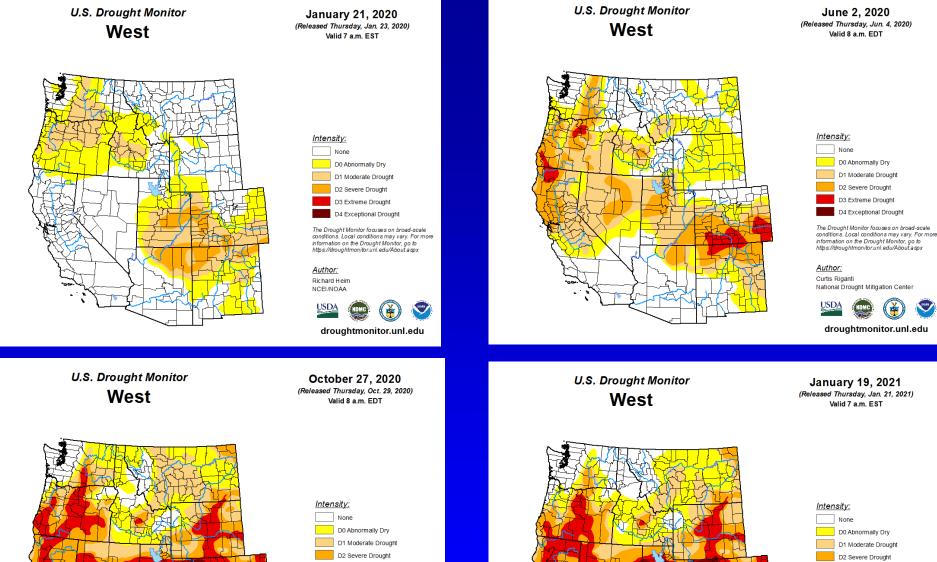
Arizona Climate Update: Where are we now and where are we headed?

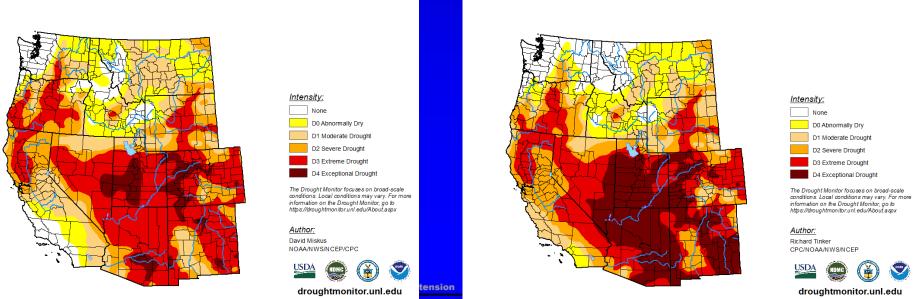
Mike Crimmins
Professor/Extension Specialist
Dept. of Environmental Science &
Cooperative Extension
The University of Arizona



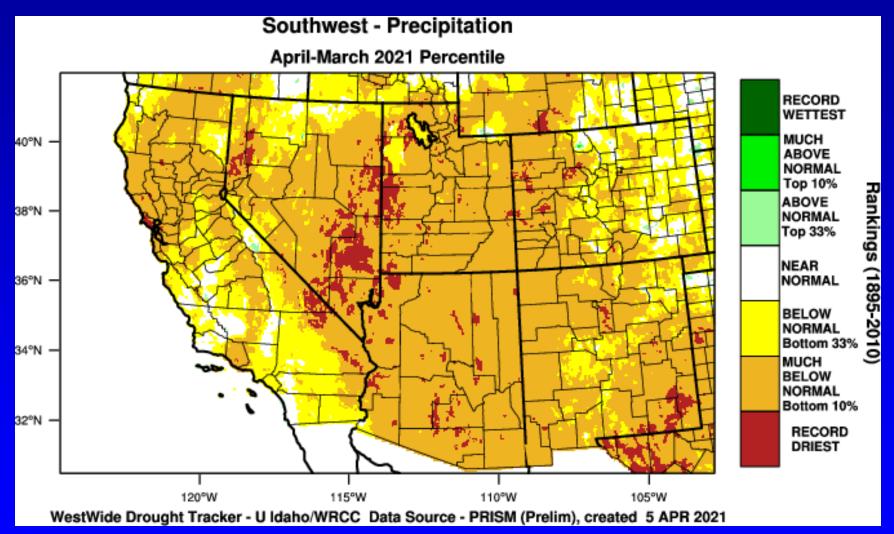








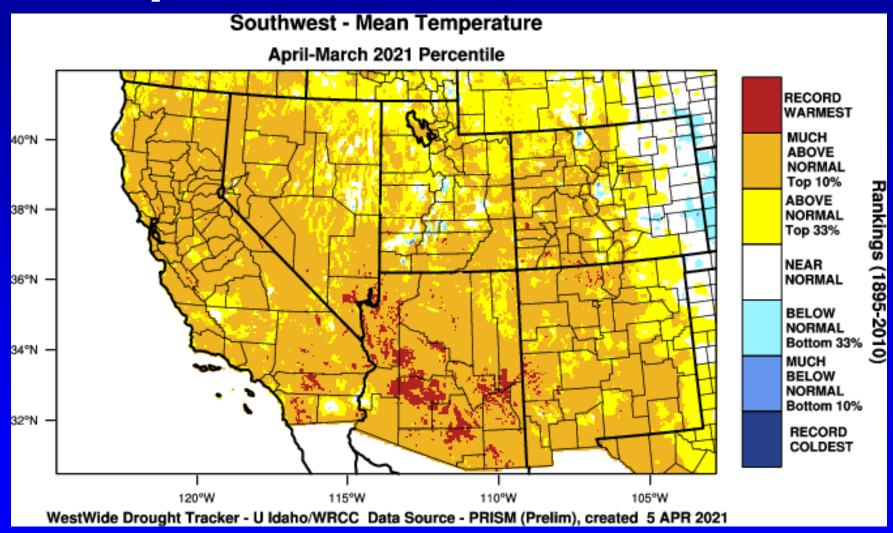
Precipitation – last 12 months





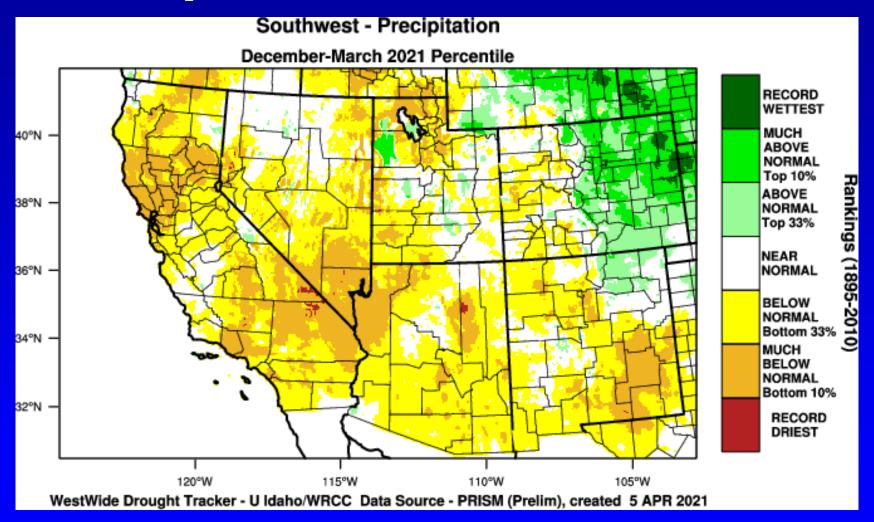


Temperature – last 12 months





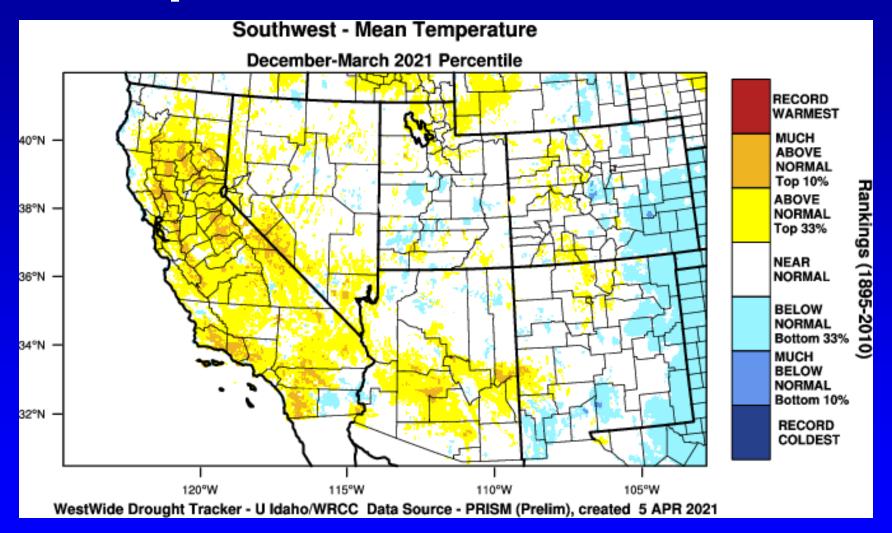
Precipitation – last 4 months







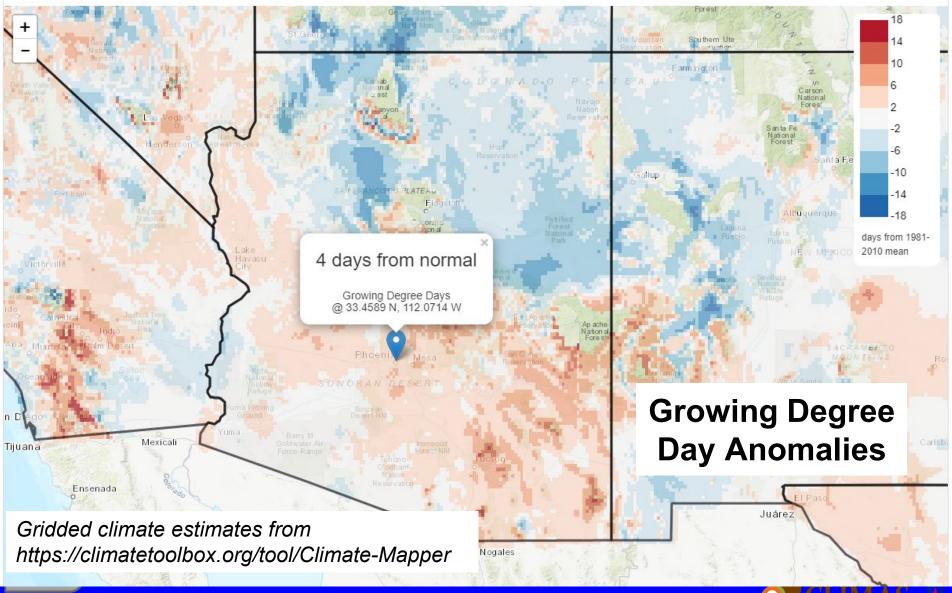
Temperature – last 4 months



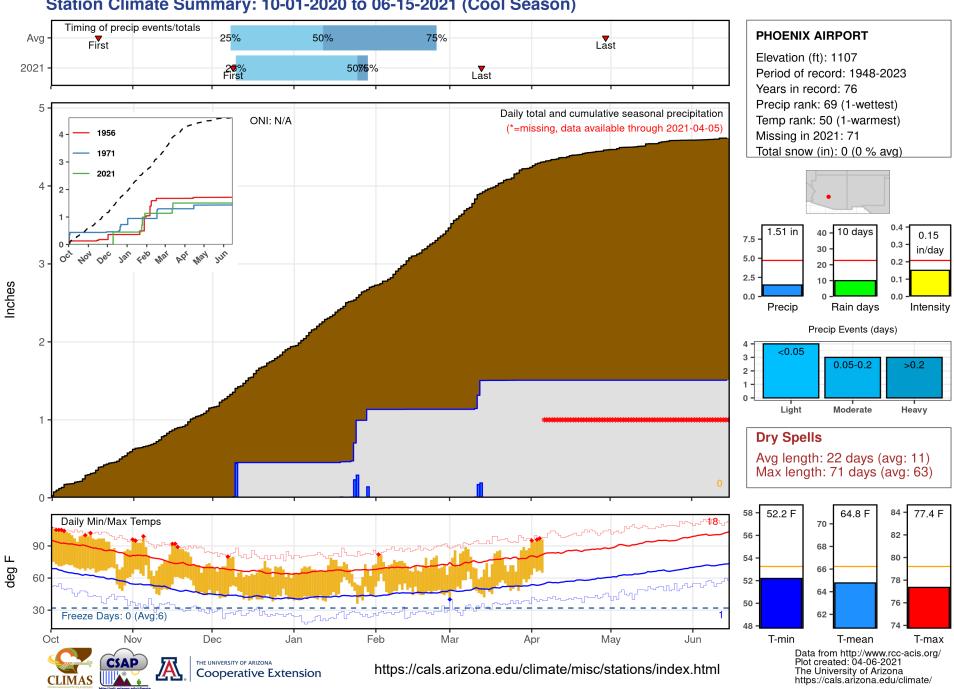




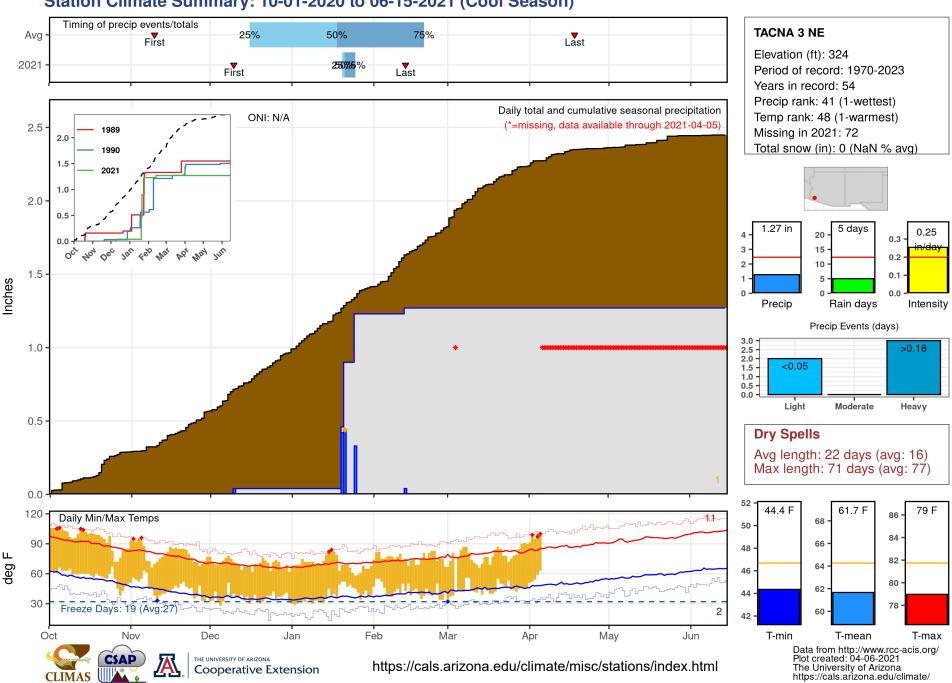
Growing Degree Days (40°F) Anomaly (days), Since Jan 1st 2021/01/01 - 2021/04/05



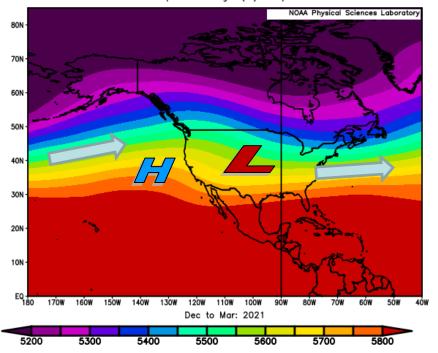
Station Climate Summary: 10-01-2020 to 06-15-2021 (Cool Season)



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NCEP/NCAR Reanalysis 500mb Geopotential Height (m) Composite Mean



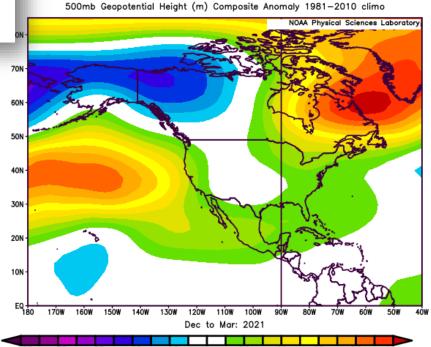
https://psl.noaa.gov/



Average Upper-level Weather Pattern (500mb level ~ 18,000 ft) Dec-March

Difference from average

NCEP/NCAR Reanalysis
500mb Geopotential Height (m) Composite Anomaly 1981-2010 clima



NOAA Climate.gov



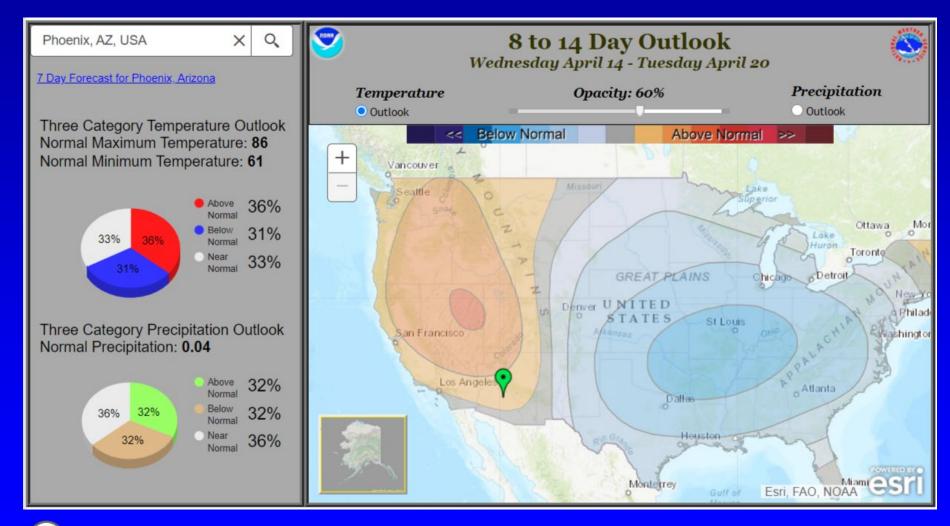
Climate Science Applications Program - University of Arizona

Weather and Seasonal Climate Outlooks





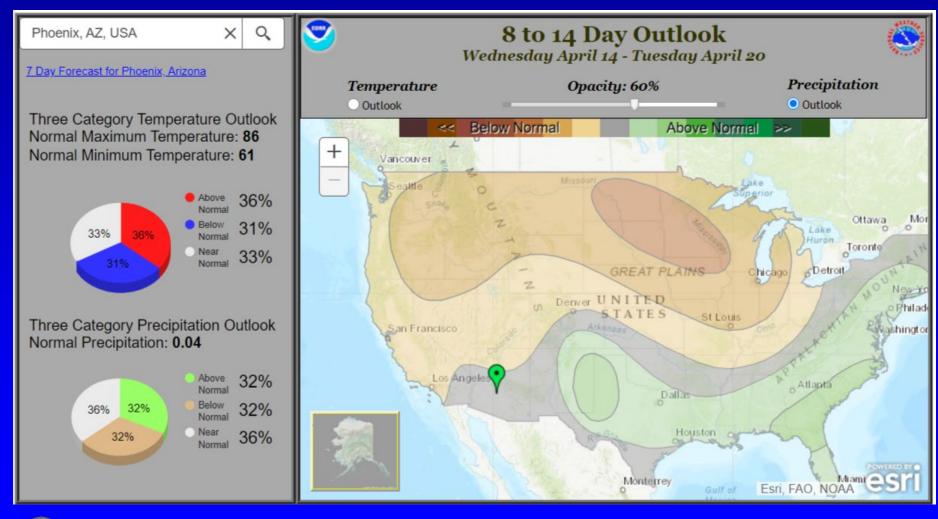
8-14 Day Temperature Outlook





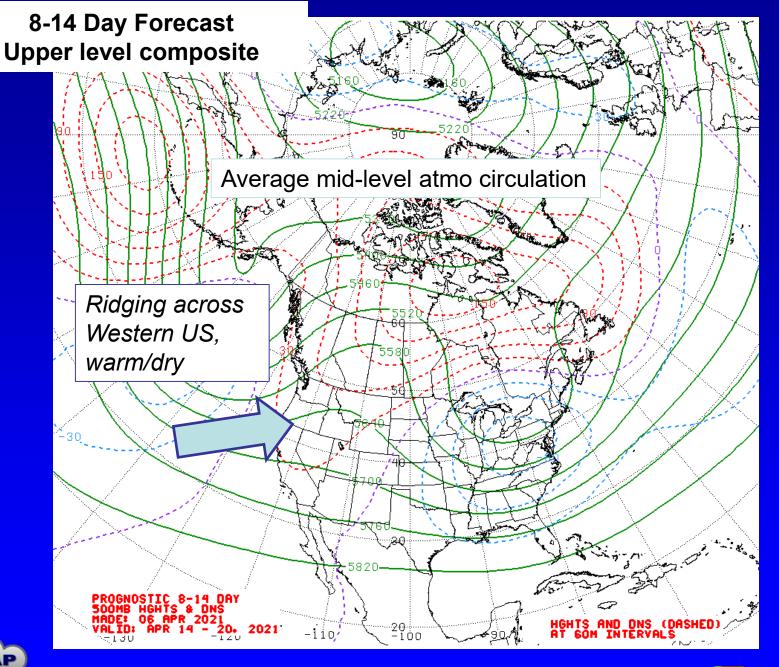


8-14 Day Precipitation Outlook

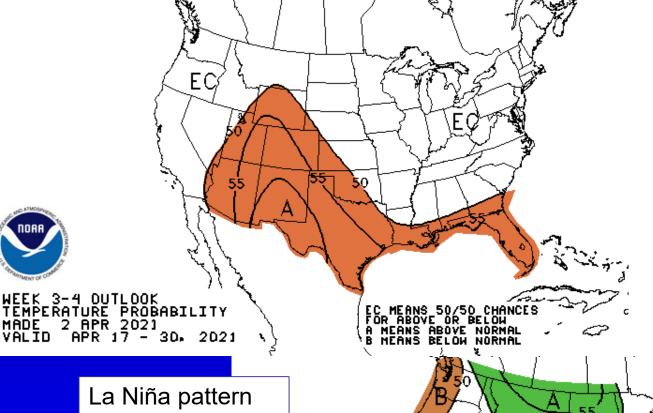












Week 3-4
Forecasts
(valid Apr 17-30)

La Niña pattern wanes, entering climo dry season

https://www.cpc.nce p.noaa.gov/products/ predictions/WK34/





WEEK 3-4 EXPERIMENTAL OUTLOOK PRECIPITATION PROBABILITY MADE 2 APR 2021 VALID APR 17 - 30, 2021

EC

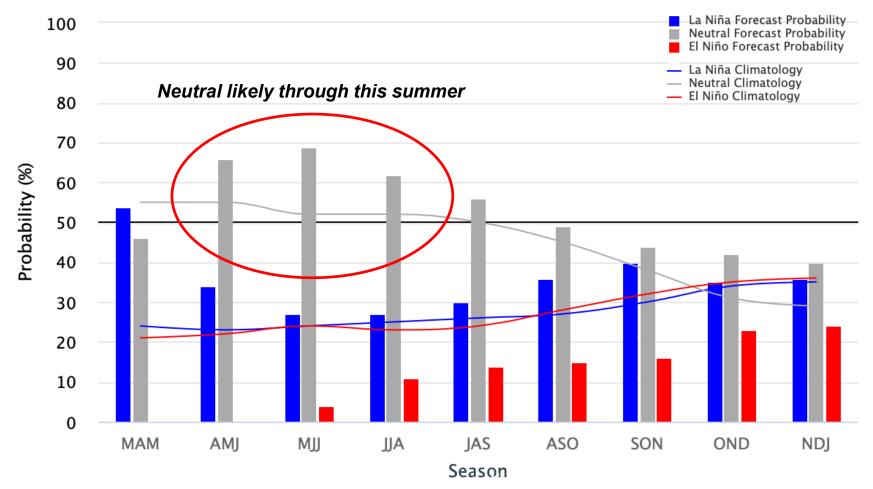
EC MEANS 50/50 CHANCES FOR ABOVE OR BELOW A MEANS ABOVE NORMAL B MEANS BELOW NORMAL

EC

La Niña pattern is winding down

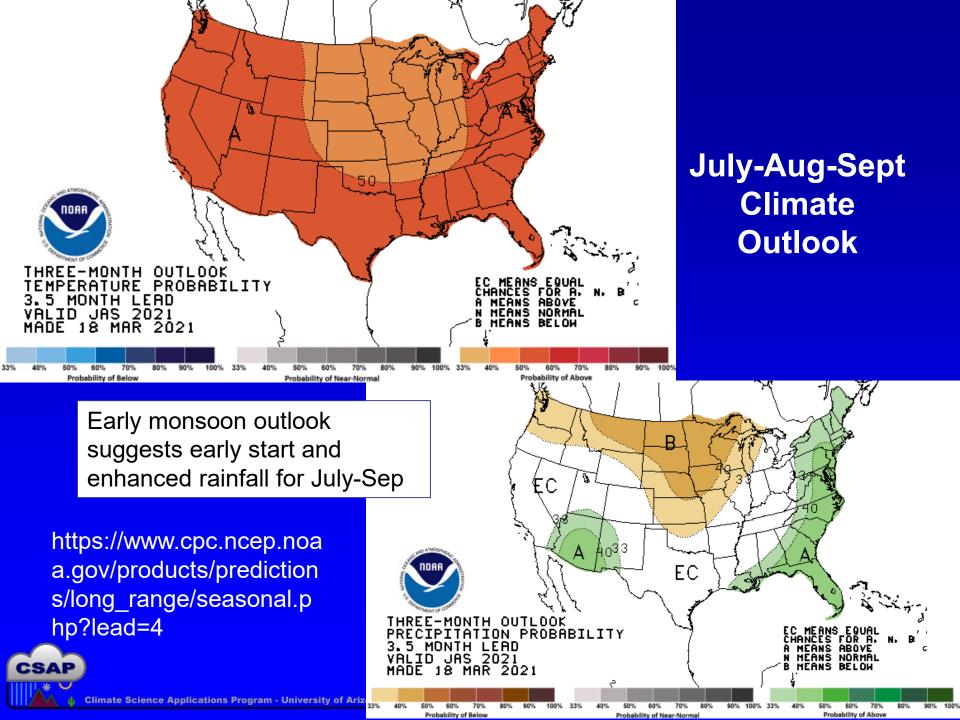
Mid-March 2021 IRI/CPC Model-Based Probabilistic ENSO Forecasts

ENSO state based on NINO3.4 SST Anomaly Neutral ENSO: -0.5 °C to 0.5 °C

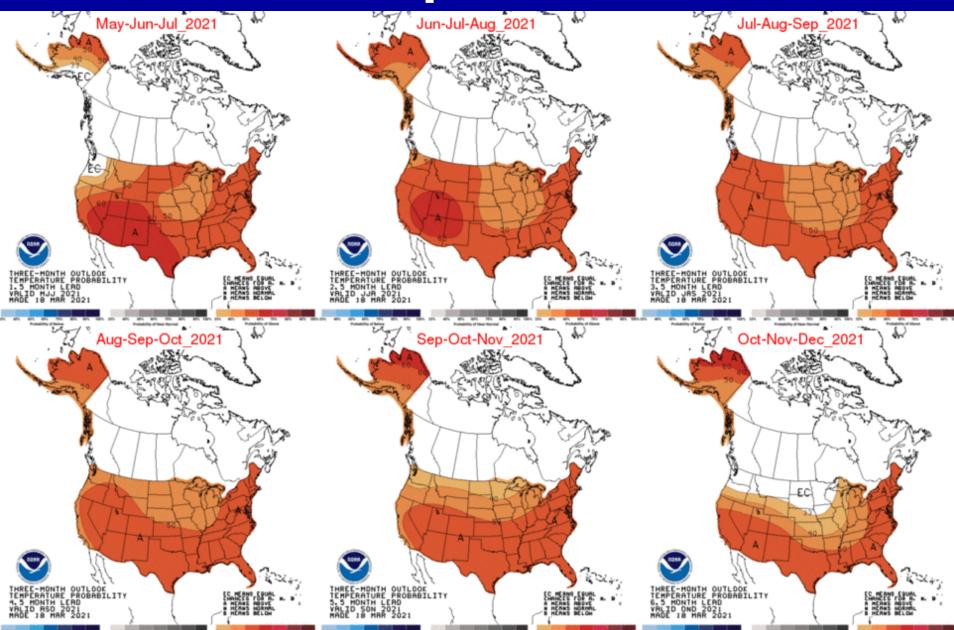




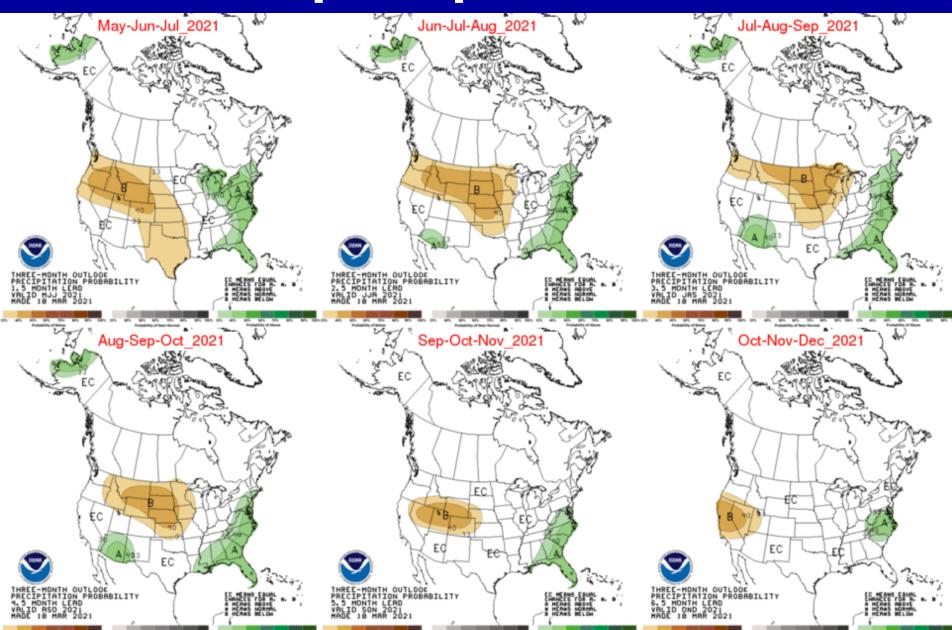




Seasonal temperature outlooks



Seasonal precipitation outlooks



Closing Points

- La Niña conditions have been present and most likely impacting AZ weather since November
- Only major precipitation event of the entire winter occurred in late January, very few events otherwise
- Overall, drier-than-average conditions over last 4-months and near-average temperatures
- Drought conditions continue moving into climatologically dry season
- Short-term outlooks suggest warmer-than-average temperatures over next couple of weeks and most likely rest of spring season
- Early start to monsoon? Stay tuned…





Thanks!

crimmins@arizona.edu http://cals.arizona.edu/climate



