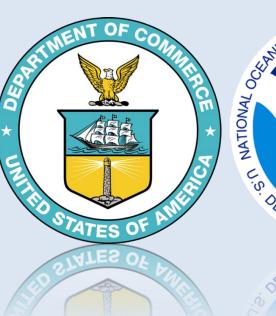
NOAA Climate Science & Services Monthly Climate Update

A look back at January

A preview of March-May





Jake Crouch

Climate Scientist
NOAA's National Climatic Data Center

Kathie Dello

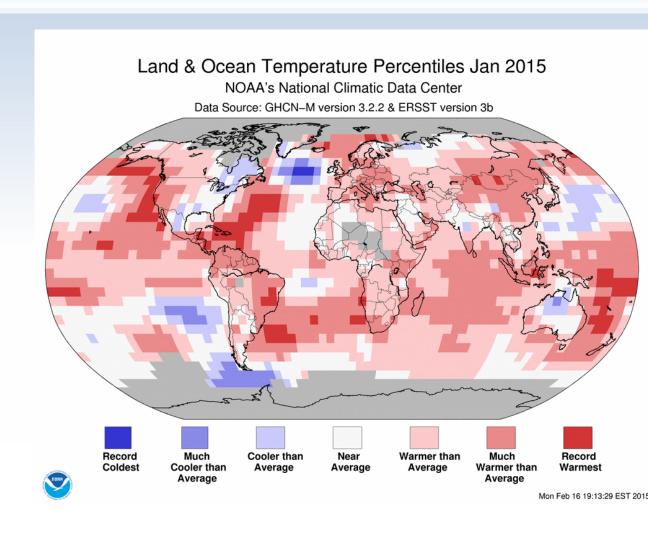
Deputy Director, Oregon Climate Service at Oregon State University

Anthony Artusa

Seasonal Forecaster
NOAA's Climate Prediction Center

Global Temperature: January 2015

- January +1.39°F warmer than 20th century average
 - 2nd warmest Jan on record
 - Jan 2007 was warmer
- Land: +2.57°F
 - 2nd warmest
- Ocean: +0.95°F
 - 3rd warmest



The global temperature record dates to 1880 (136 years)



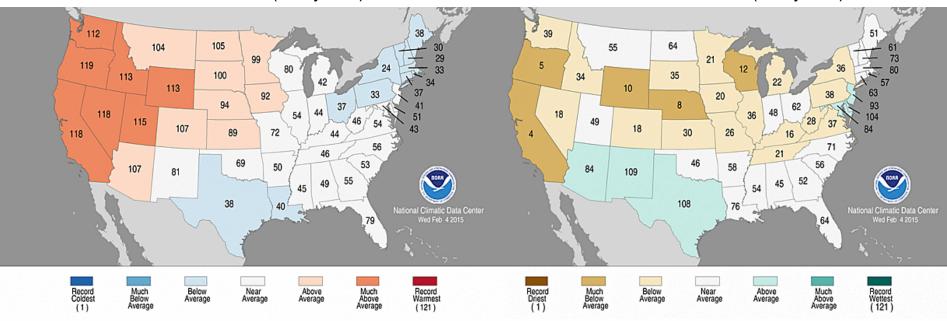
Contiguous U.S. January 2015

Temperature: 33.0°F, +2.9°F, 24th warmest January

Precipitation: 1.75", -0.56", 18th driest January

Statewide Temperature Ranks, January 2015 Period: 1895-2014 (121 years)

Statewide Precipitation Ranks, January 2015 Period: 1895-2014 (121 years)



- The West was warm, where seven states were top 10 warm. No state was record warm.
- Southern Plains and Northeast were cool, no state was top 10 cool.
- Nearly 4x as many warm daily records than cold ones.

- The West and northern tier were dry. Four states were top 10 dry, but no state was record dry.
- Third consecutive much drier than average Jan for CA.
- The Southern Plains and Southwest were wet.
- 18th smallest Jan snow cover extent for the Lower 48.
- Nor'easter impacted New England at end of month.



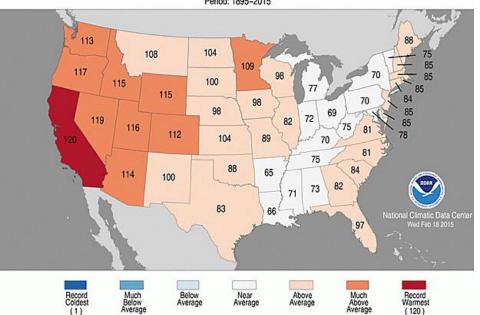
U.S. Winter to Date

- Dec 2014-Jan 2015: 34.9°F, +3.5°F, 6th warmest Dec-Jan on record.
- California record warm for second consecutive Dec-Jan.

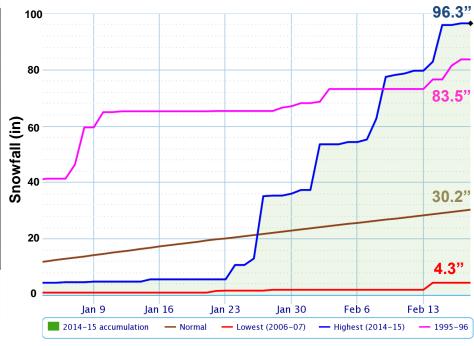
Monthly Climate Webinar

- Snowfall surpluses in New England and snowfall deficits in the West.
 - Several Nor'easters and other snow storms in the East.
 - Warmth in the West resulted in most precipitation to fall as rain.

Statewide Precipitation Ranks, Dec-Jan 2014/15 Period: 1895-2015 (120 years)



Boston-Logan Int'l Airport Season-to-Date Snowfall Accumulation



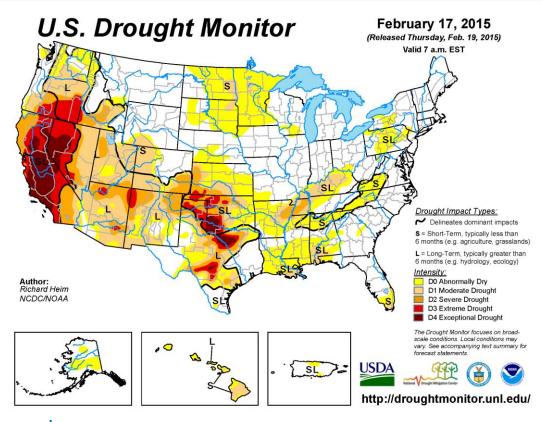


Graphic and data provided by ACIS/NRCC Data through February 18th

Current U.S. Drought

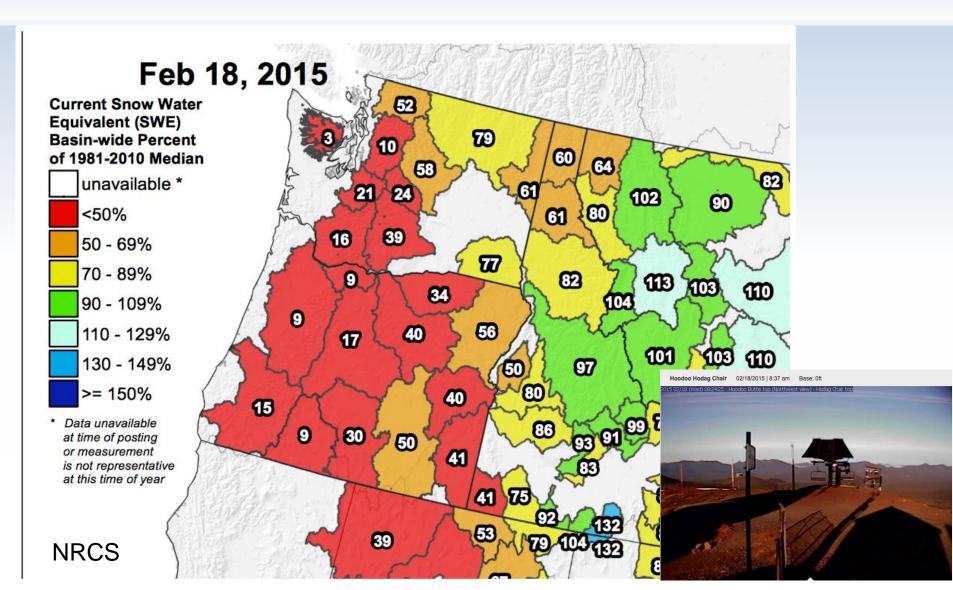
32.1% of Contiguous U.S. in Drought

- (1 3.4% since beginning of January)
- Improvement: Parts of the West, interior Northwest, Southwest, Southern Plains
- Degradation: Central Rockies, Upper Midwest, Mid-South, and Hawaii
- Status quo: Central Plains, Southern California, Inter-basin West.



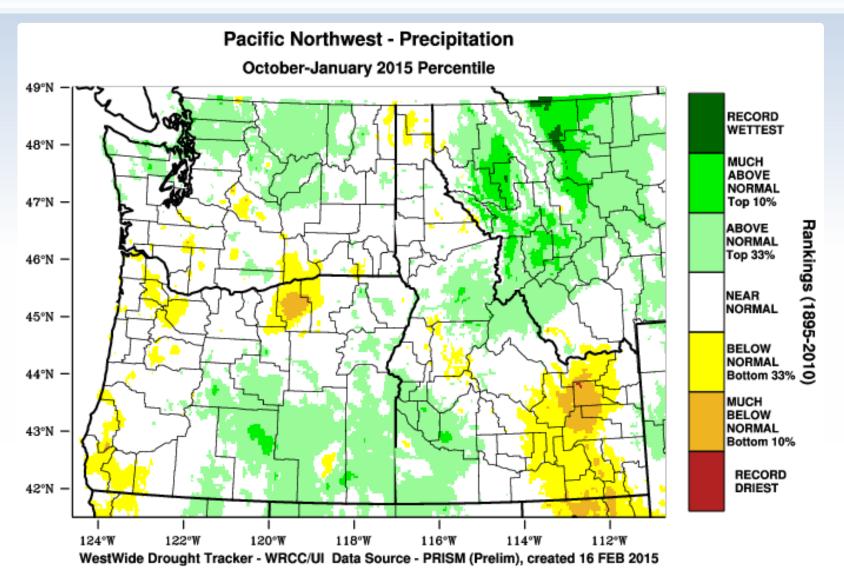


Current Snow Water Equivalent % of Normal



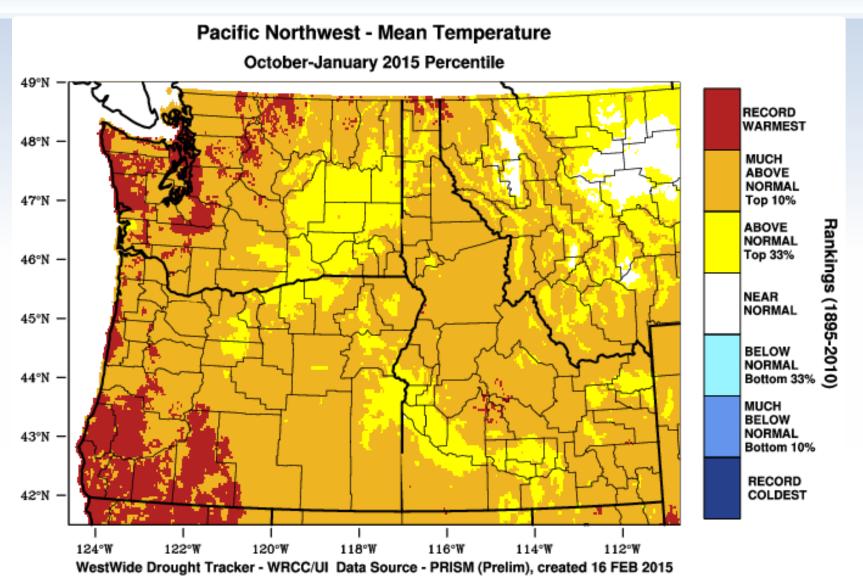


Water Year (Oct-Jan) Precipitation



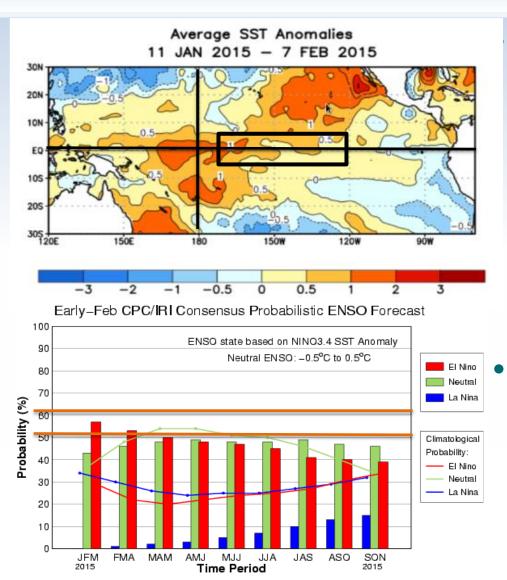


Water Year (Oct-Jan) Mean Temperature





Sea Surface Temperatures and ENSO



Sea surface temperatures

- Above normal SSTs across the western/central equatorial Pacific, west coast of N. America (not shown)
- Near to Below normal SSTs in eastern equatorial Pacific

ENSO forecast

- 50-60 % chance of El Niño in next 2 months, then Neutral
- Anomalies between +0.5 C and +1.0 C, favors a weak El Niño

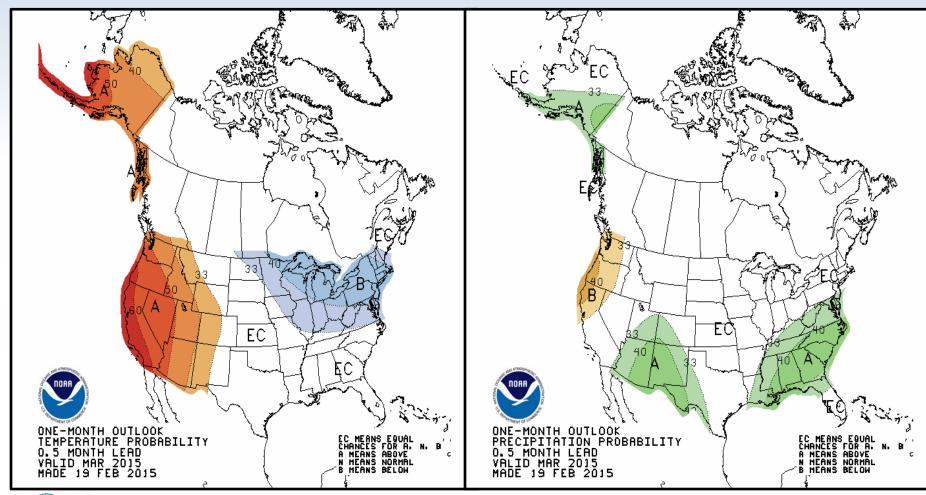




Monthly Forecast (March)

March Average Temperature Probability

March Total Precipitation Probability

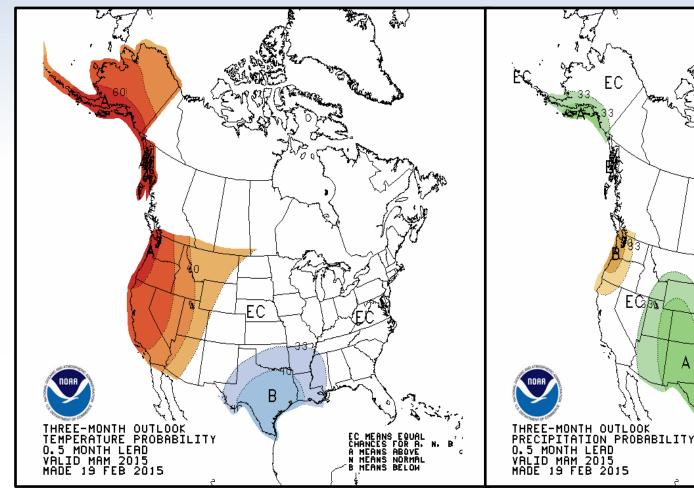


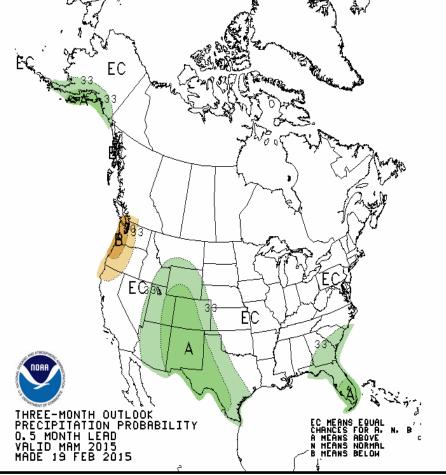


Seasonal Forecast (Mar-Apr-May)

March-May Average **Temperature Probability**

March-May Total **Precipitation Probability**





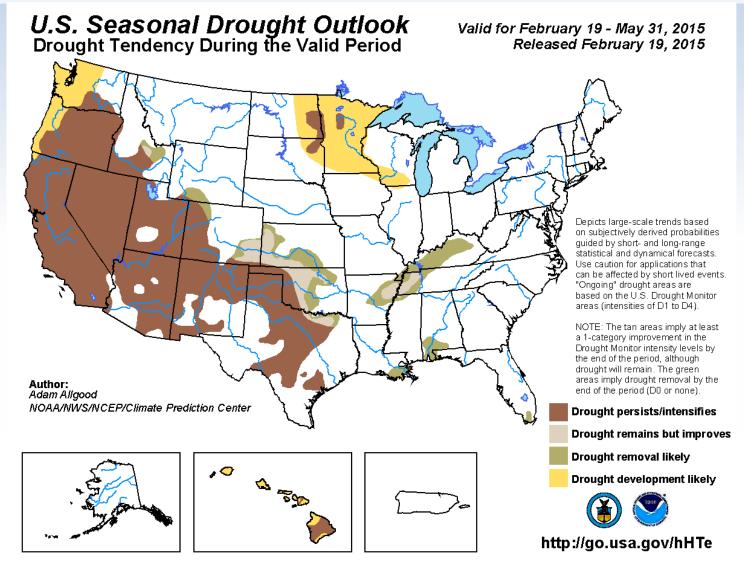




U.S. Drought Outlook

Drought Tendency During the Valid Period February 19, 2015 – May 31, 2015; Released Feb 19, 2015







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For More Information

TODAY'S PRESENTATION:

http://www.ncdc.noaa.gov/sotc/briefings

NOAA's National Climatic Data Center: www.ncdc.noaa.gov

- Monthly climate reports (U.S. & Global): www.ncdc.noaa.gov/sotc/
- Dates for upcoming reports: http://www.ncdc.noaa.gov/monitoring-references/dyk/monthly-releases

Oregon Climate Service at Oregon State University: http://www.ocs.oregonstate.edu/

NOAA's Climate Prediction Center: www.cpc.ncep.noaa.gov

U.S. Drought Monitor: http://drought.gov

Climate Portal: www.climate.gov

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