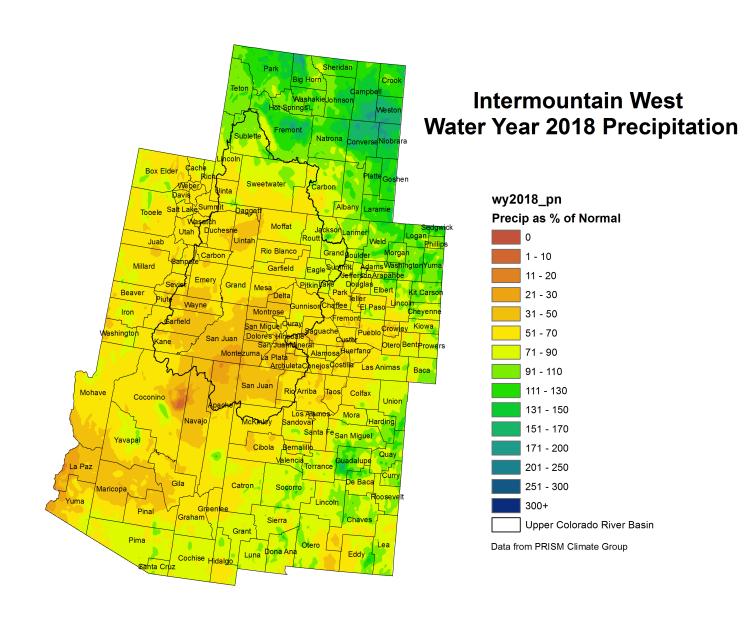
Intermountain West Water Year 2018 Wrap-up

Zach Schwalbe

October 16, 2018

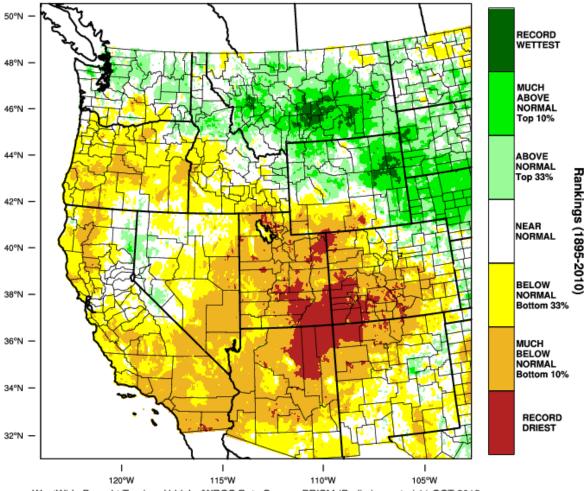






Western United States - Precipitation

October-September 2018 Percentile

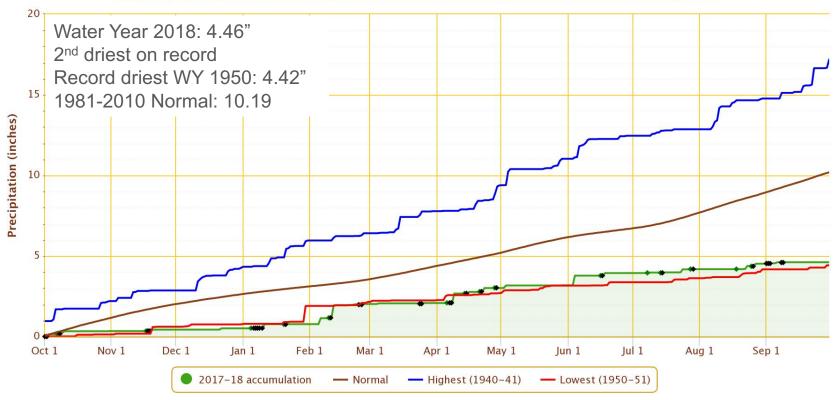


WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 11 OCT 2018



Accumulated Precipitation - MONTROSE NO 2, CO

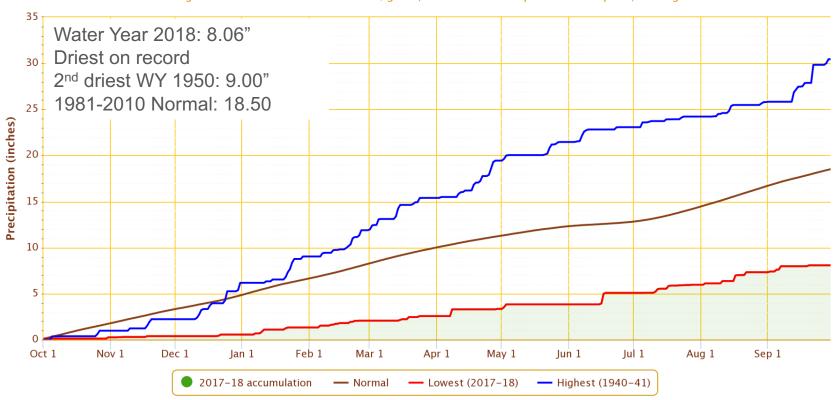
Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values





Accumulated Precipitation - MESA VERDE NP, CO

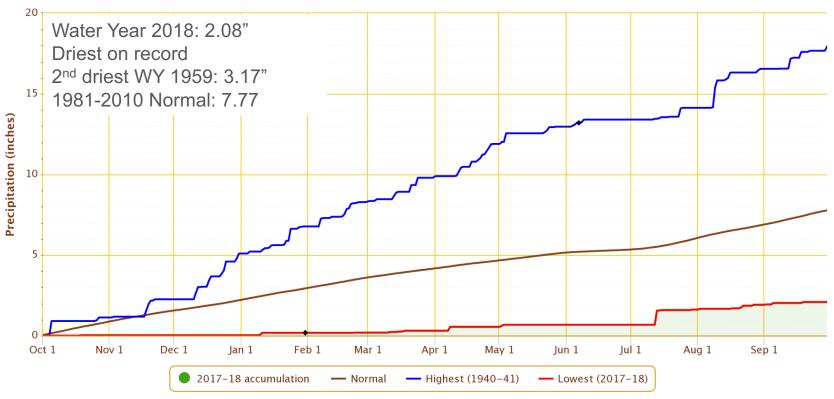
Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values





Accumulated Precipitation - BLUFF, UT

Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values

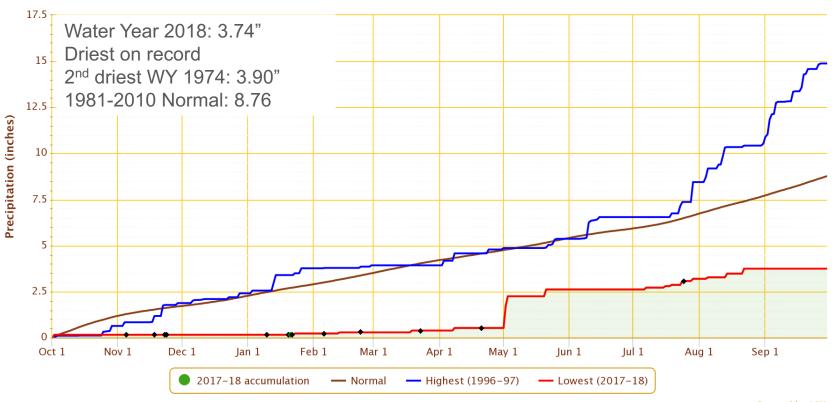




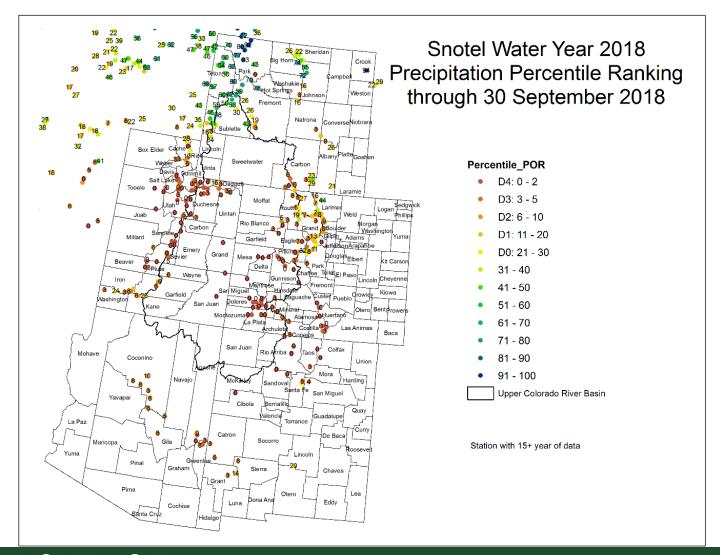
Emery County, Utah

Accumulated Precipitation - FERRON, UT

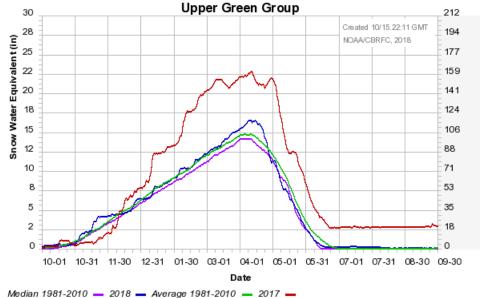
Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values





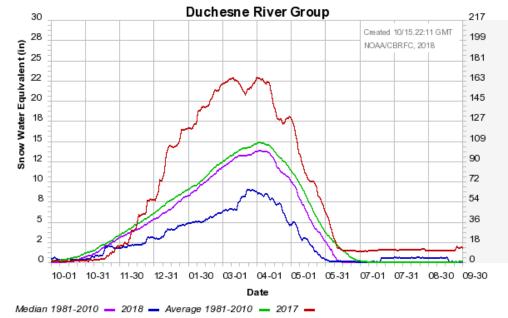


Colorado Basin River Forecast Center **Upper Green Group**



Colorado Basin River Forecast Center Yampa Group 30 134 Created 10/15.22:12 G MT 123 28 28 25 22 20 20 20 NOAA/CBRFC, 2018 112 101 90 Snow Water 18 78 15 67 12 56 10 45 34 22 11 10-01 10-31 11-30 12-31 01-30 03-01 04-01 05-01 05-31 07-01 07-31 08-30 09-30 Date Median 1981-2010 - 2018 - Average 1981-2010 - 2017 -

Colorado Basin River Forecast Center

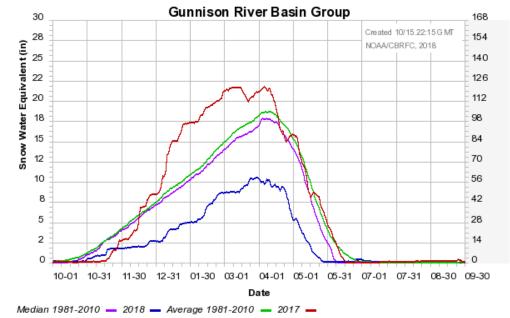


Colorado Basin River Forecast Center Upper Colorado Mainst Group Created 10/15.22:15 G MT 25 20 20 20 NOAA/CBRFC, 2018 Water 10-01 10-31 11-30 12-31 01-30 03-01 04-01 05-01 05-31 07-01 07-31 08-30 09-30 Date



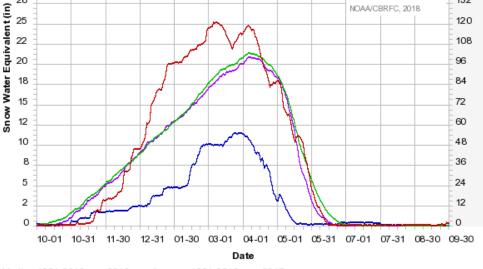


Colorado Basin River Forecast Center





Colorado Basin River Forecast Center

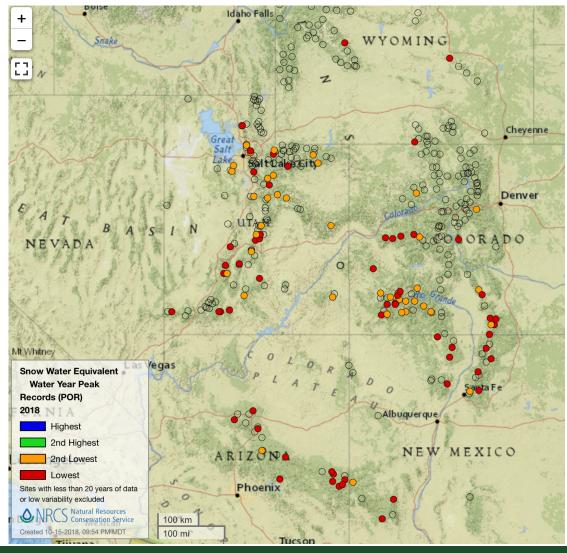


Median 1981-2010 - 2018 - Average 1981-2010 - 2017 -

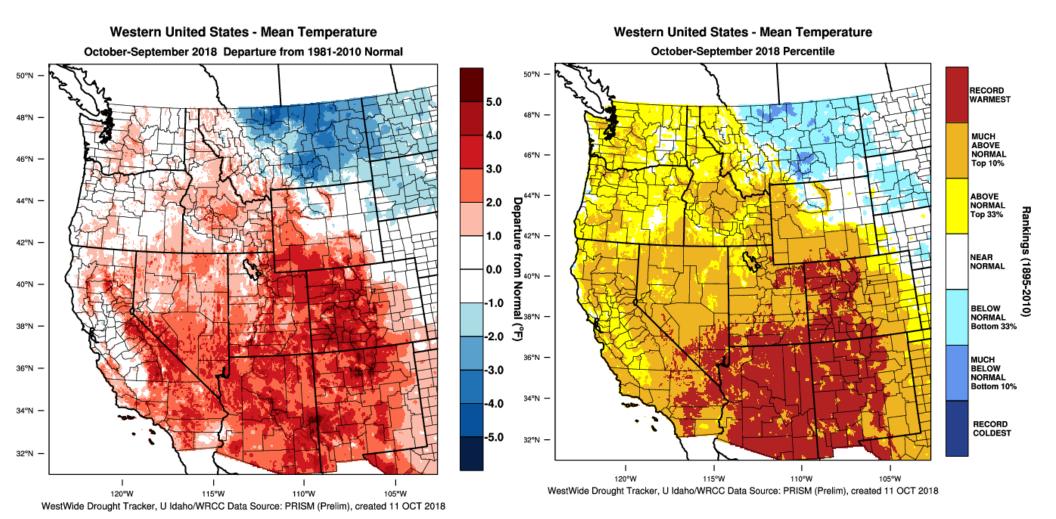


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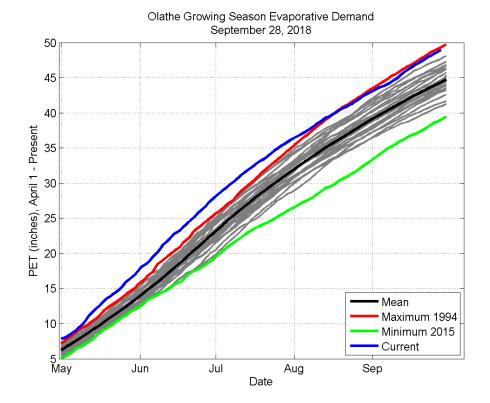
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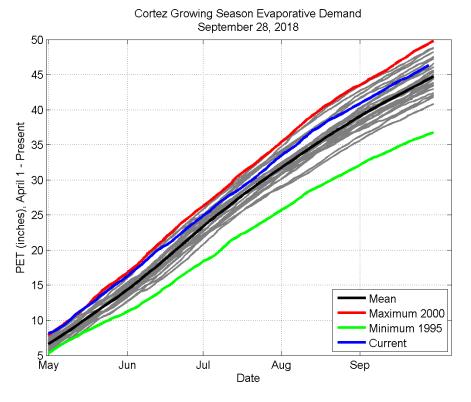




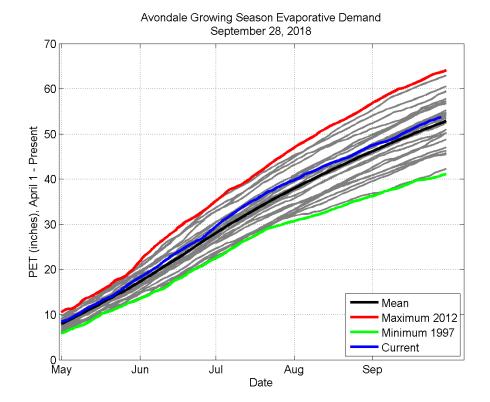


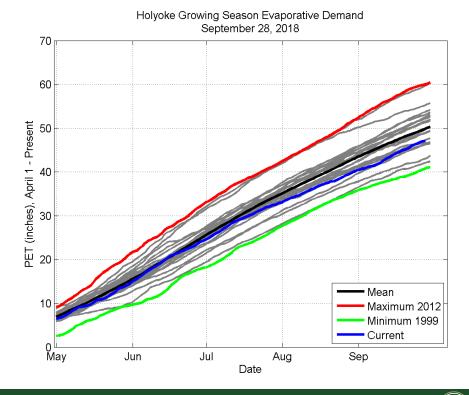


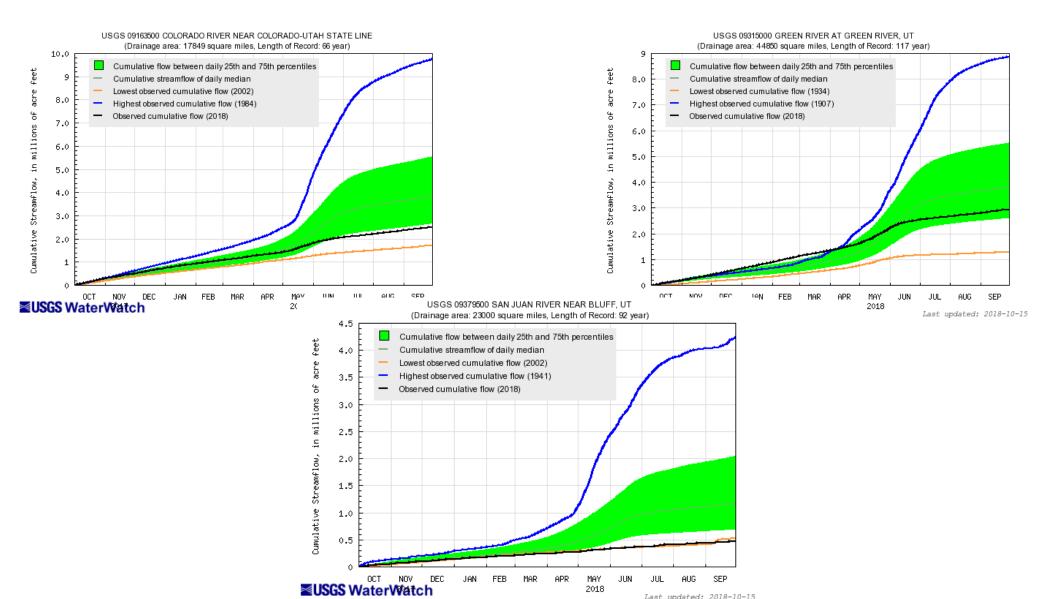






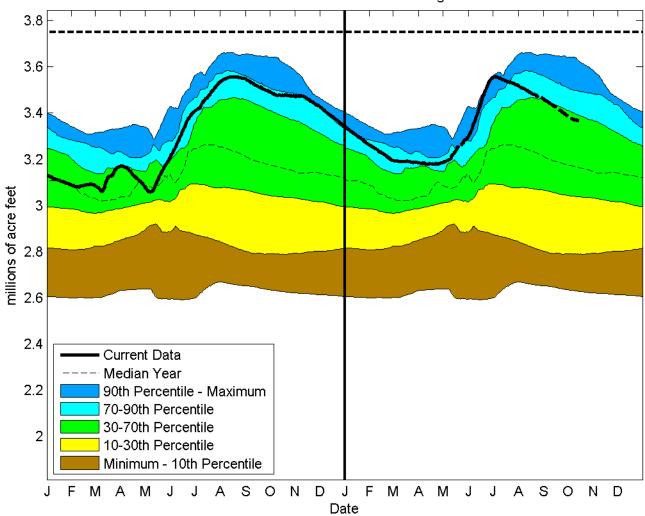




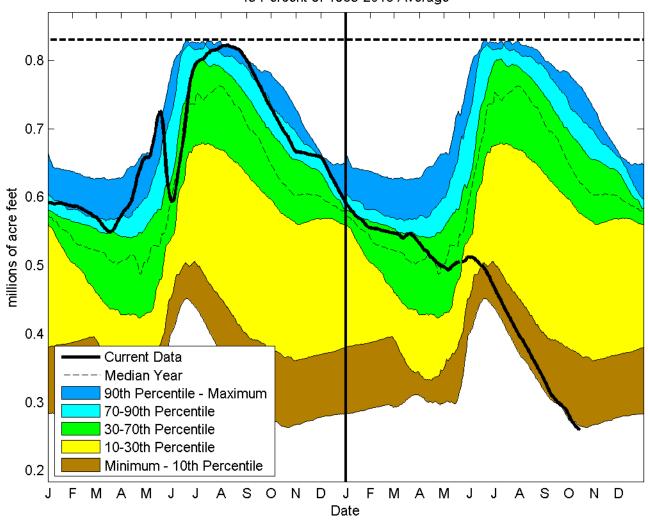


Last updated: 2018-10-15

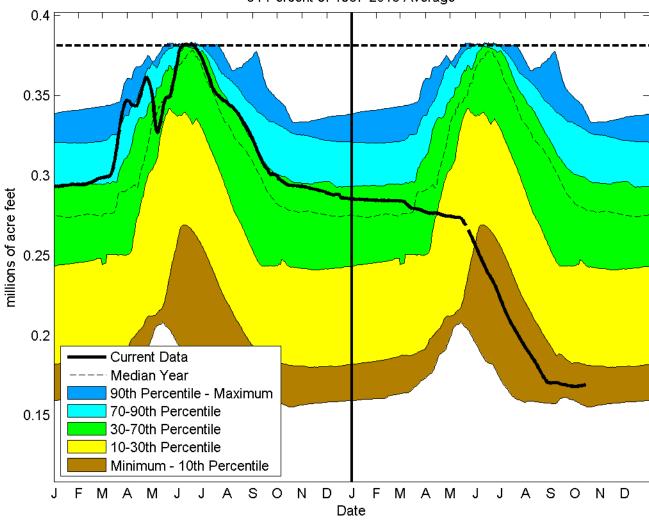
Flaming Gorge Reservoir Level 10/14/2018 106 Percent of 1985-2016 Average



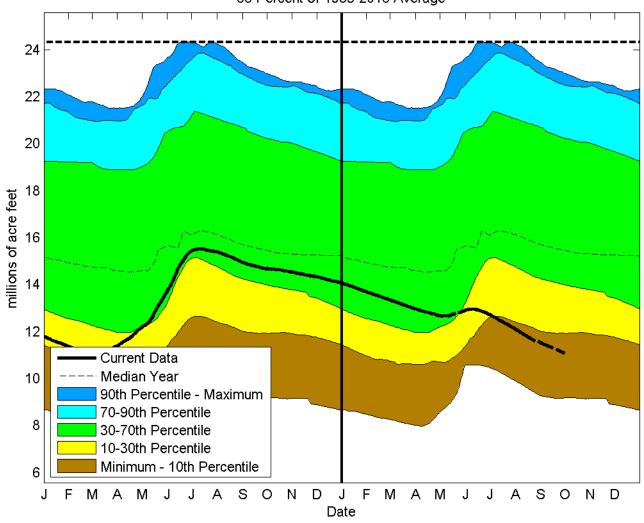
Blue Mesa Reservoir Level 10/14/2018 43 Percent of 1985-2016 Average







Lake Powell Reservoir Level 09/30/2018 66 Percent of 1985-2016 Average



Fall/Winter 2018-2019 Seasonal Outlook

Becky Bolinger

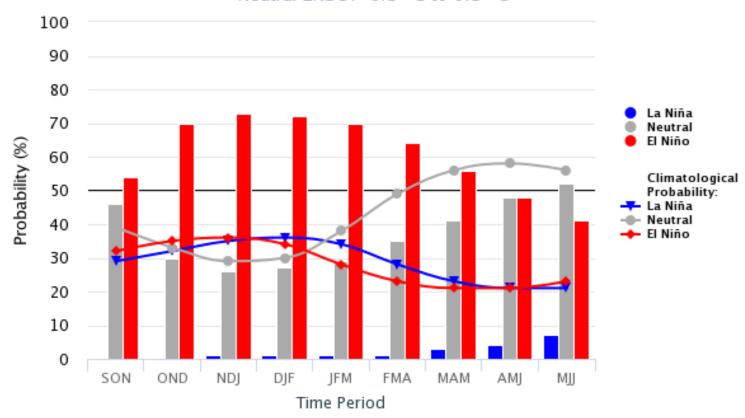
October 16, 2018



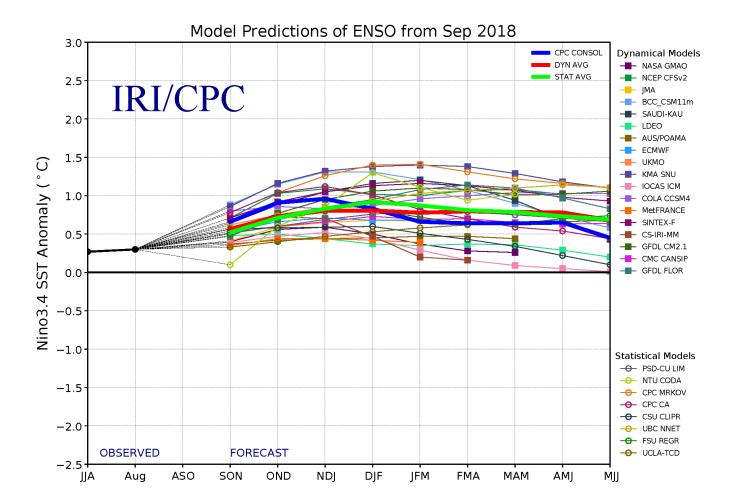


Early-Oct CPC/IRI Official Probabilistic ENSO Forecasts

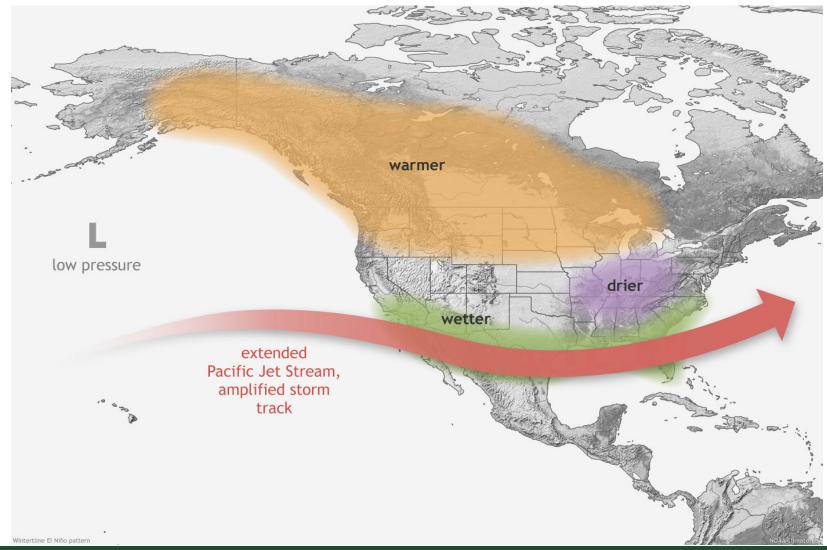
ENSO state based on NINO3.4 SST Anomaly Neutral ENSO: -0.5 °C to 0.5 °C



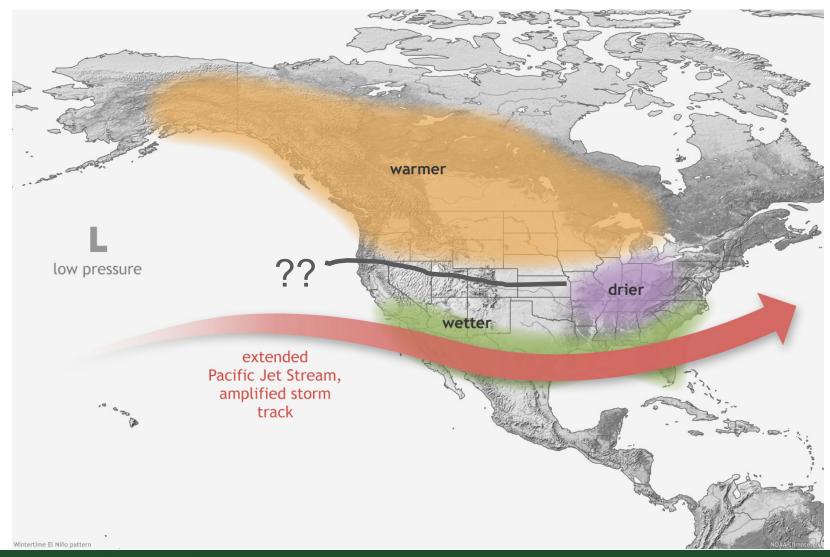




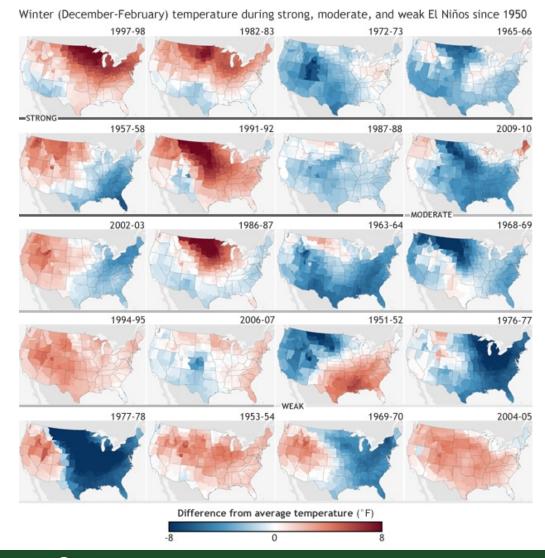


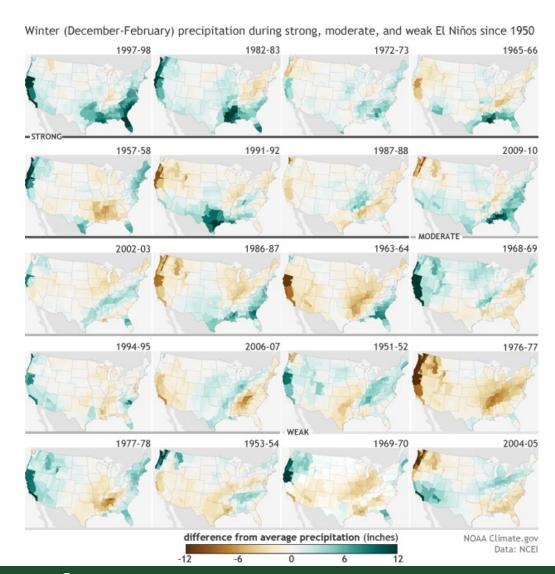




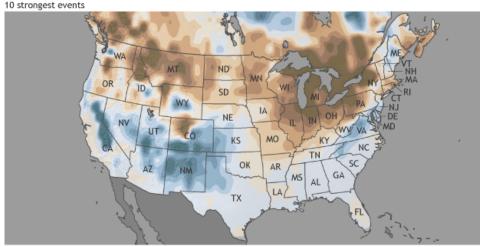


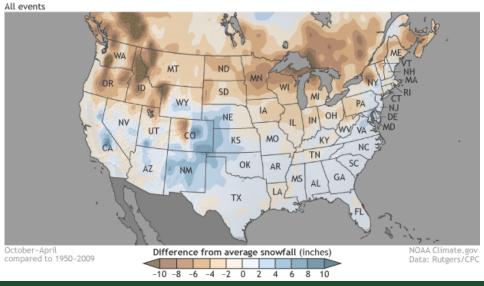




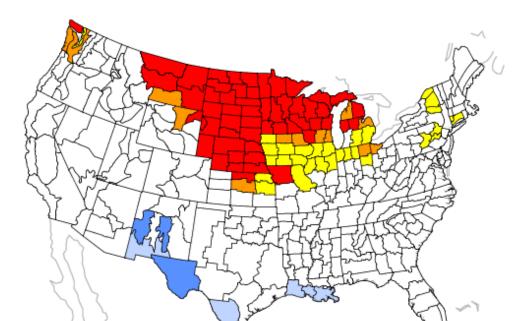


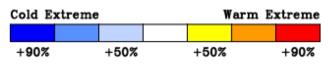
Snow during El Niño winters (1950-2009) 10 strongest events





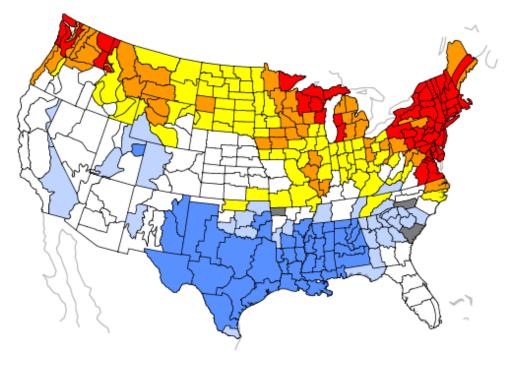
NDJ Temperature During El Nino Increased Risk of Warm or Cold Extremes

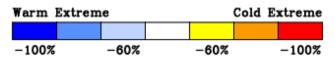




Percent (%) Increase in Risk
NOAM/ESRL/PSD

NDJ Temperature During El Nino Decreased Risk of Warm or Cold Extremes



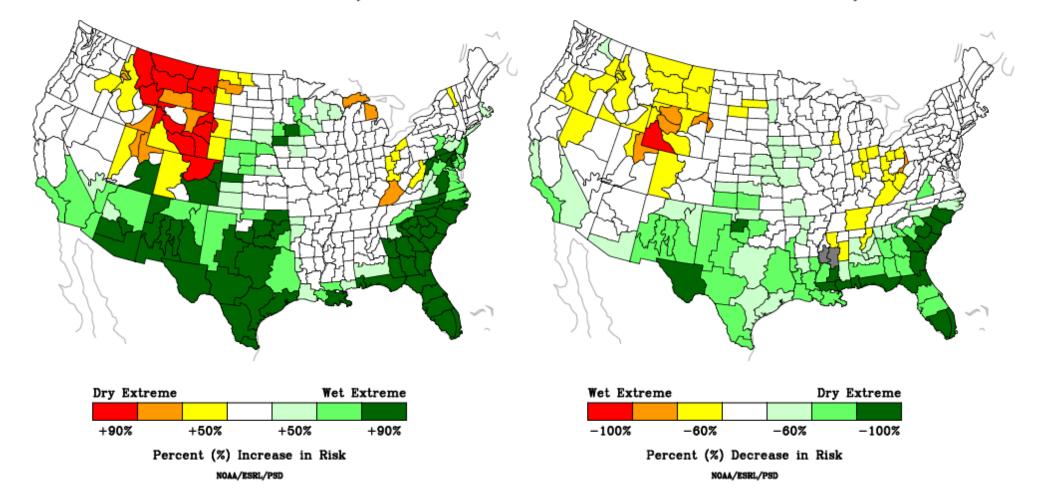


Percent (%) Decrease in Risk



NDJ Precipitation During El Nino Increased Risk of Wet or Dry Extremes

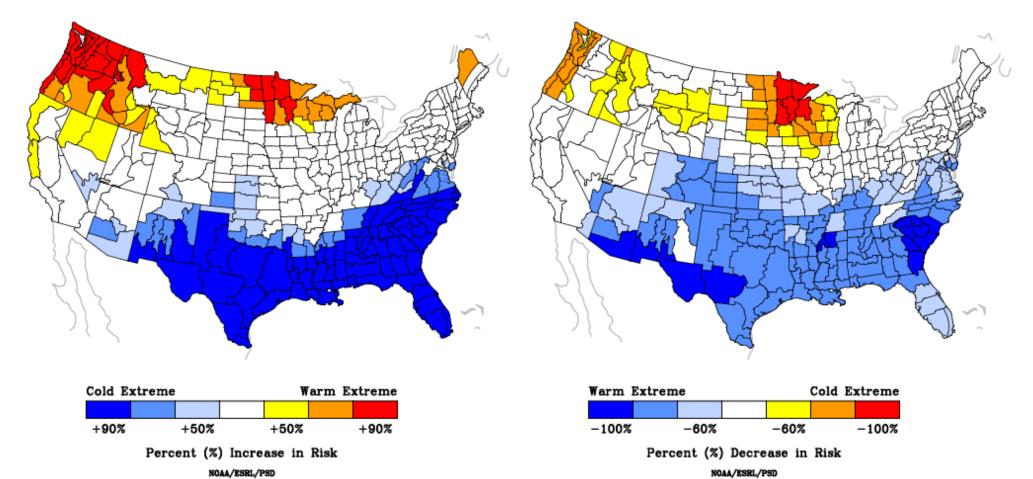
NDJ Precipitation During El Nino Decreased Risk of Wet or Dry Extremes





FMA Temperature During El Nino Increased Risk of Warm or Cold Extremes

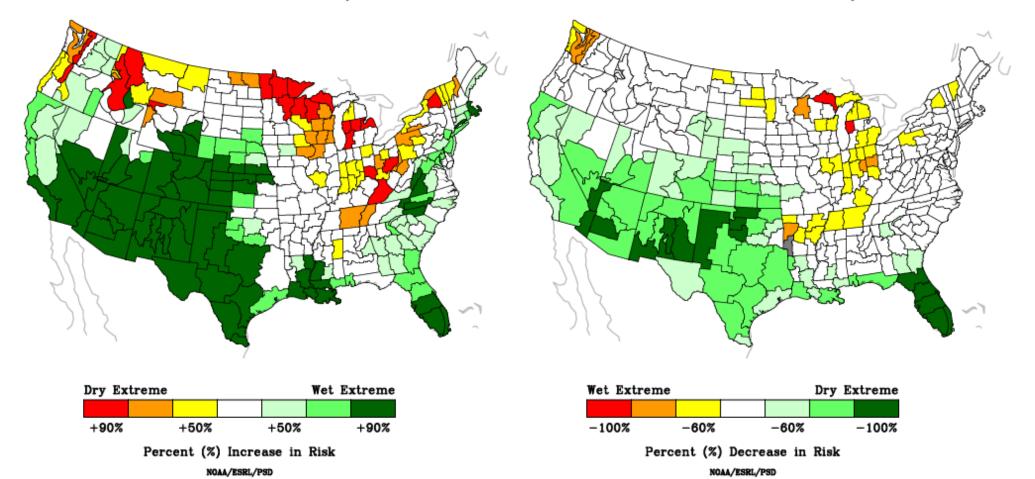
FMA Temperature During El Nino Decreased Risk of Warm or Cold Extremes





FMA Precipitation During El Nino Increased Risk of Wet or Dry Extremes

FMA Precipitation During El Nino Decreased Risk of Wet or Dry Extremes





Key Messages

- A weak-to-moderate El Niño is likely to form in the next couple months
- General drier to the north, wetter to the south pattern... but where will the dividing line end up?
- El Niño is not good news for the northern CO mountains snow season. But a strong El Niño could be good for the Four Corners
- An increased risk of wet extremes and decreased risk of dry extremes in the southern half of the IMW could mean drought relief is on the way
- Expect warmer than average temperatures still, but maybe not quite as warm
- And maybe we can cross our fingers for a good spring blizzard!



http://climate.colostate.edu/~drought

Thank you



