Providing information and expertise on Colorado's complex climate

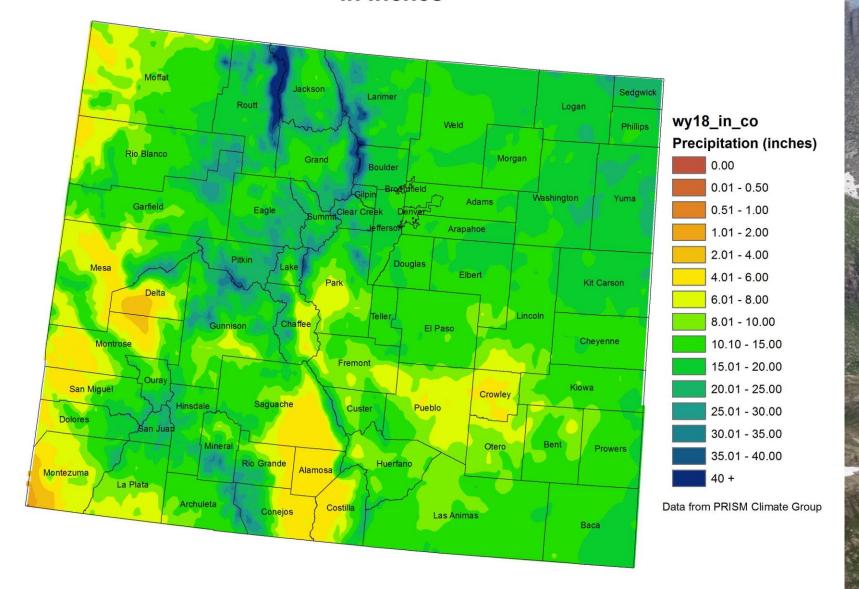
A Reflection on Water Year 2018

Peter Goble
Colorado Climate Center
Climate.colostate.edu



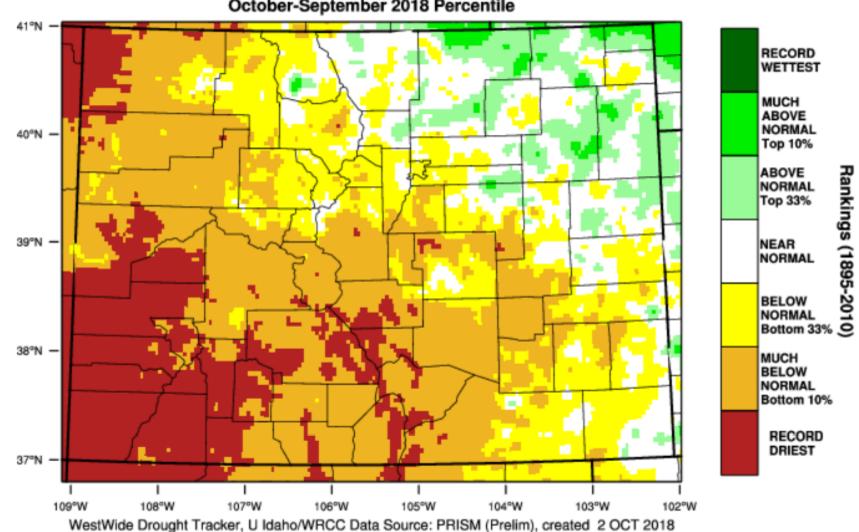


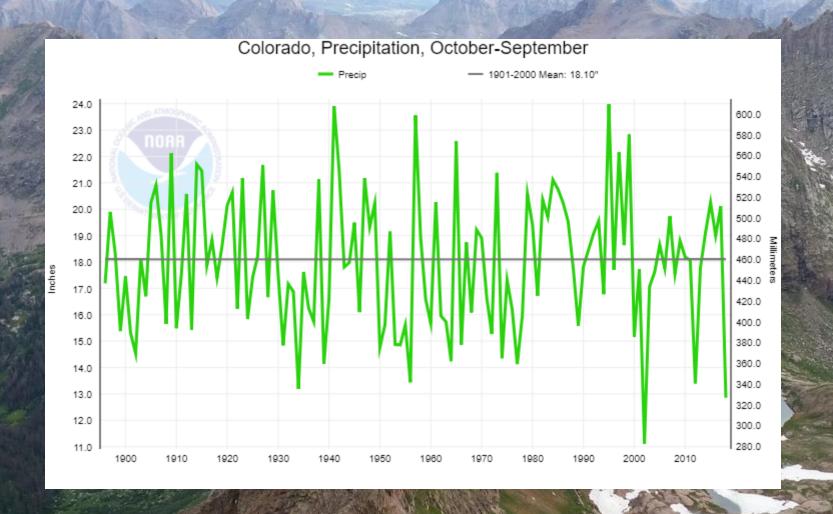
Colorado Water Year 2018 Precipitation in Inches



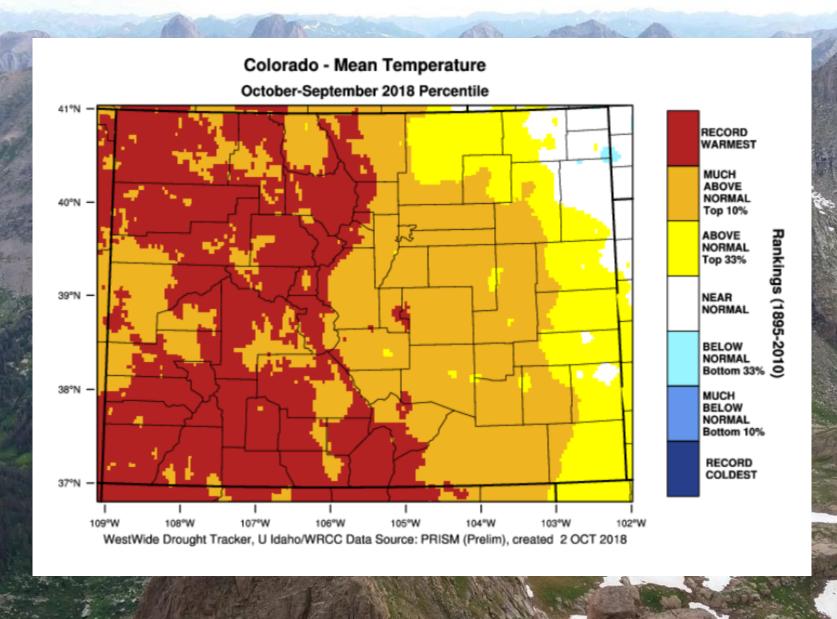
Colorado - Precipitation

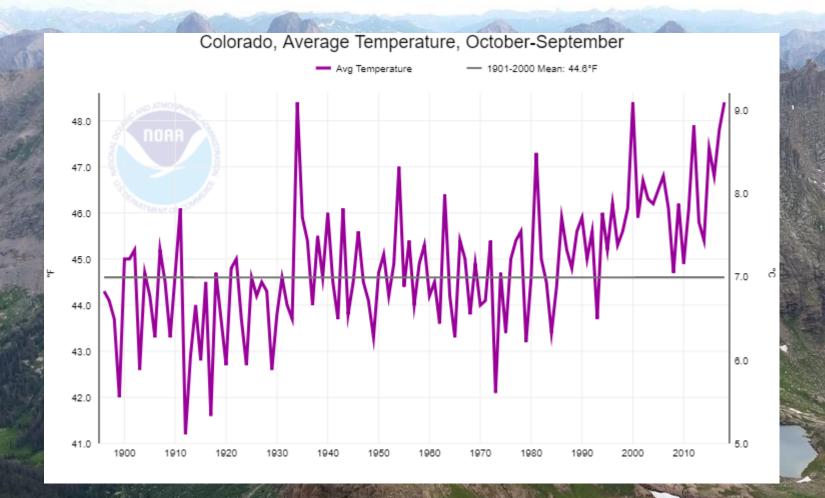




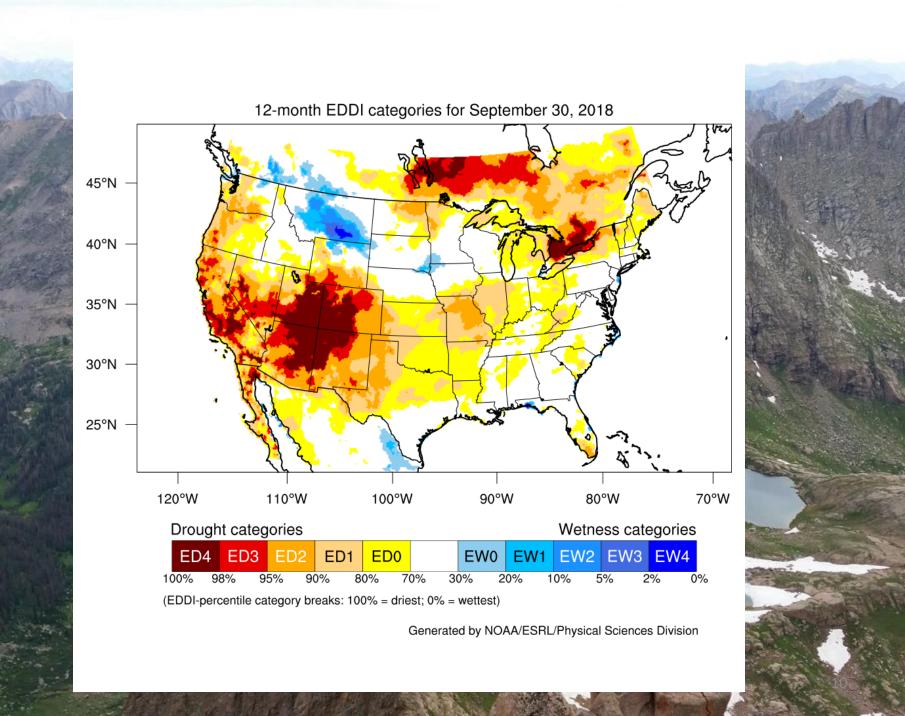


Water Year Colorado Average: 12.85" (5.25" below 20th century average)
Second driest on record (1st was WY 2002)

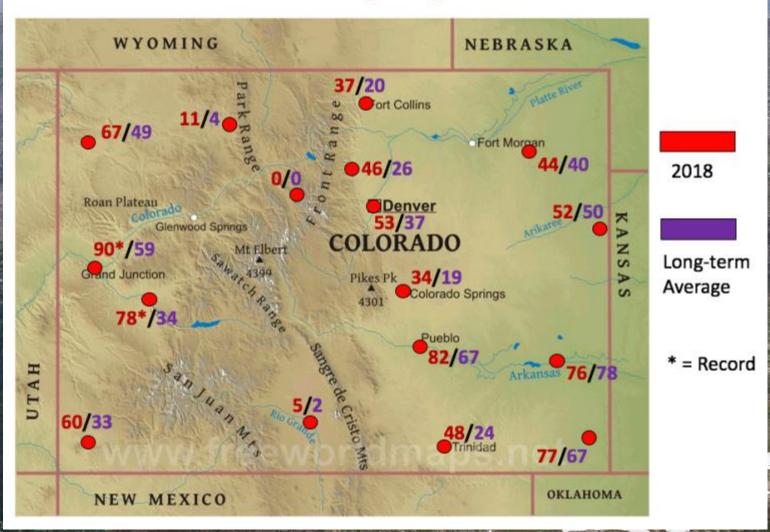




Water Year Colorado Average: 48.4 F (3.8 F above 20th century average)
Tied for warmest ever (with WY 2000 and WY 1934)



Number of 90 Degree Days



CO STATEWIDE RANKING in 124-YEAR RECORD

MONTH	T RANK	P RANK	
Oct 2017	near average	37 th driest	
Nov 2017	record warmest	18 th driest	
Dec 2017	8 th warmest	7 th driest	
Jan 2018	8 th warmest	37 th driest	
Feb 2018	near average	near average	
Mar 2018	25 th warmest	26 th driest	
Apr 2018	near average	34 th driest	
May 2018	2 nd warmest	38 th driest	
Jun 2018	3 rd warmest	26 th driest	
Jul 2018	10 th warmest	near average	
Aug 2018	33 rd warmest	25 th driest	
Sep 2018	3 rd warmest	19 th driest	
Water Year	record warmest	2 nd driest	

From NOAA NCEI's National Temperature and Precipitation Rank Maps: www.ncdc.noaa.gov/sotc/national

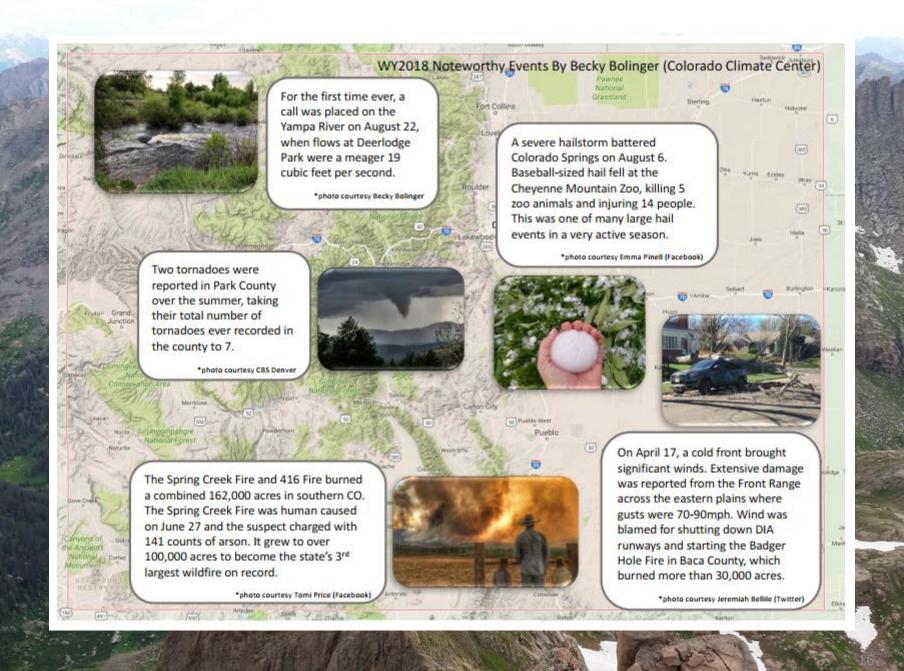


NUMBER OF DAILY AND MONTHLY STATION RECORDS BROKEN in CO

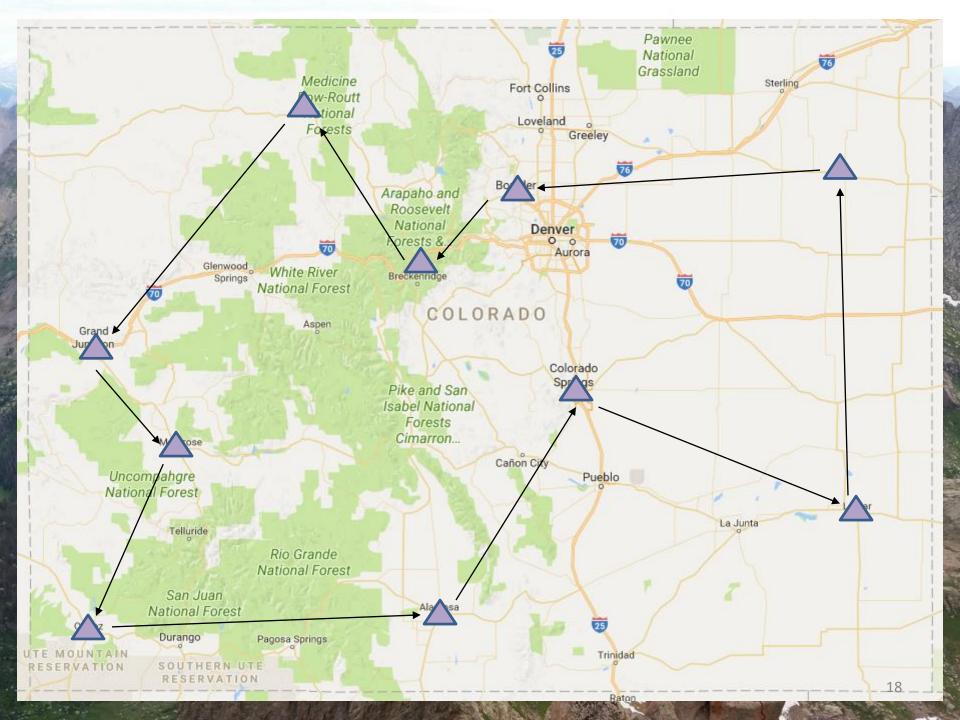
Weather Record Broken	Record broken for a day	Record broken for a month
Highest Max Temperature	1,696	22
Highest Min Temperature	2,971	100
Lowest Max Temperature	560	0
Lowest Min Temperature	292	0
Highest Precipitation	786	17
Highest Snowfall	196	2

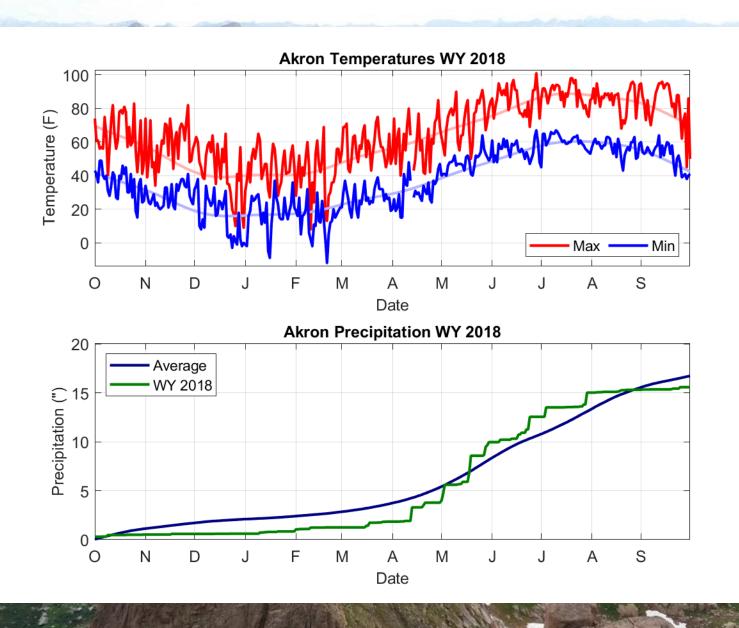
From NOAA NCEI's Select U.S. Records: www.ncdc.noaa.gov/extremes/records

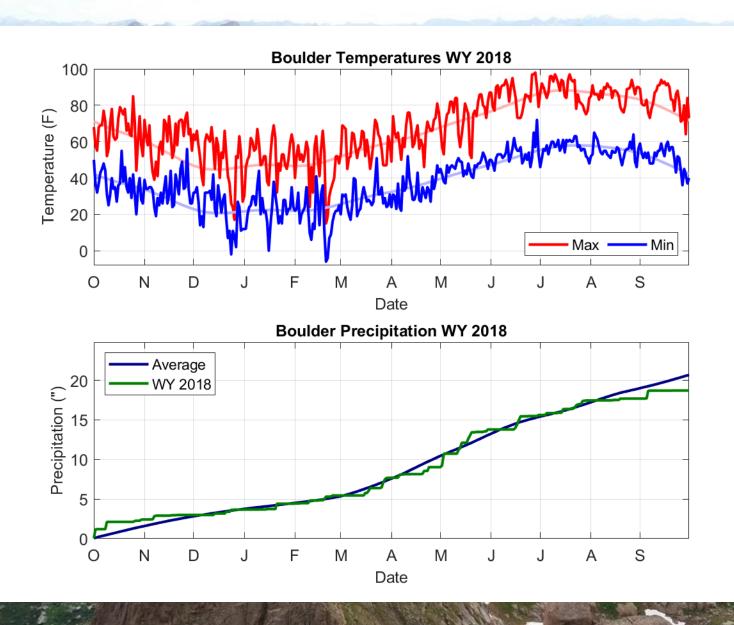


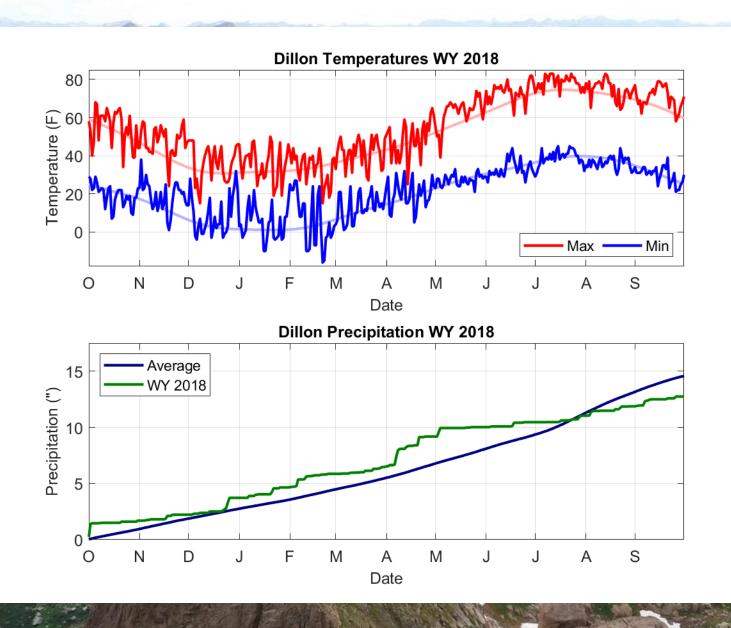


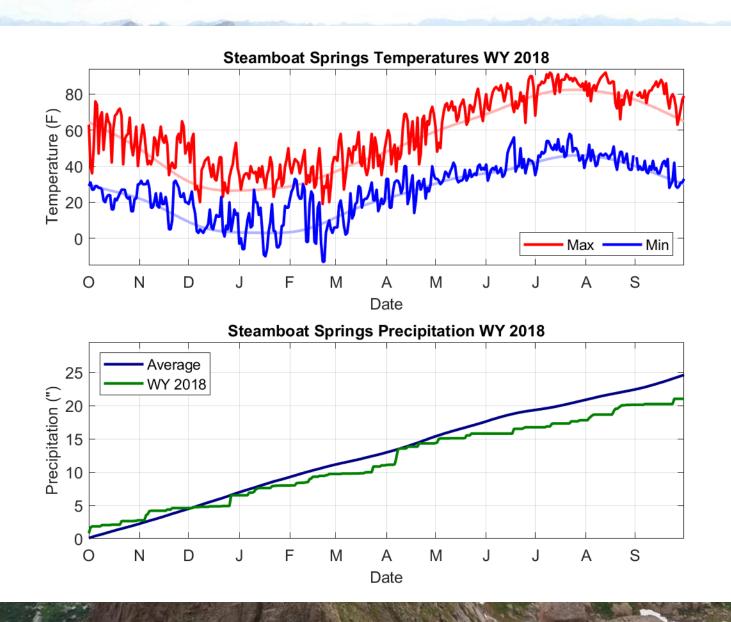


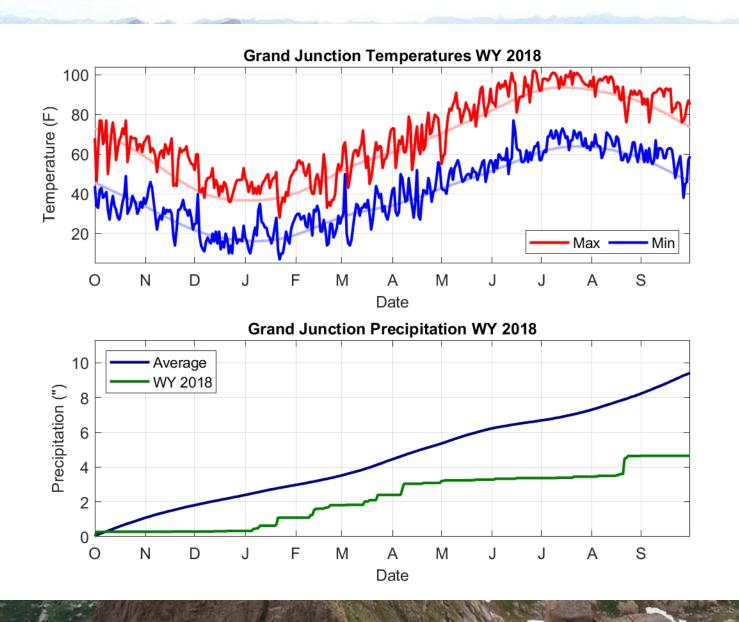


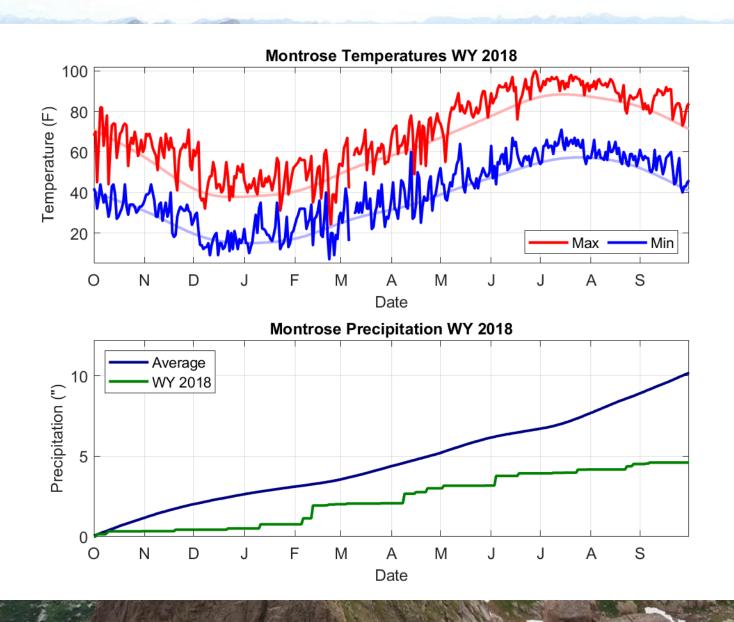


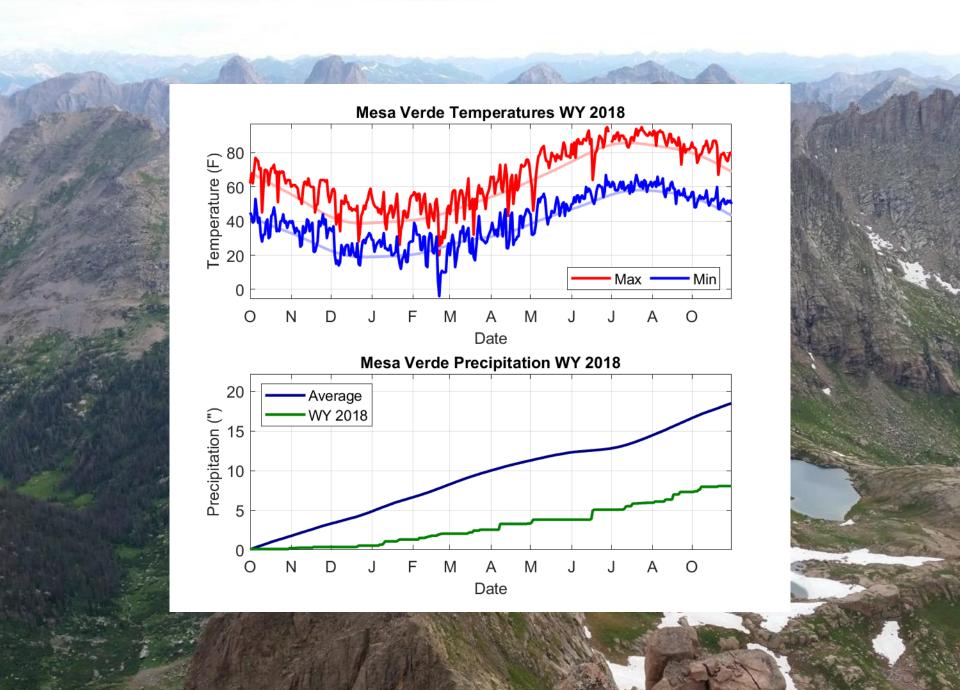


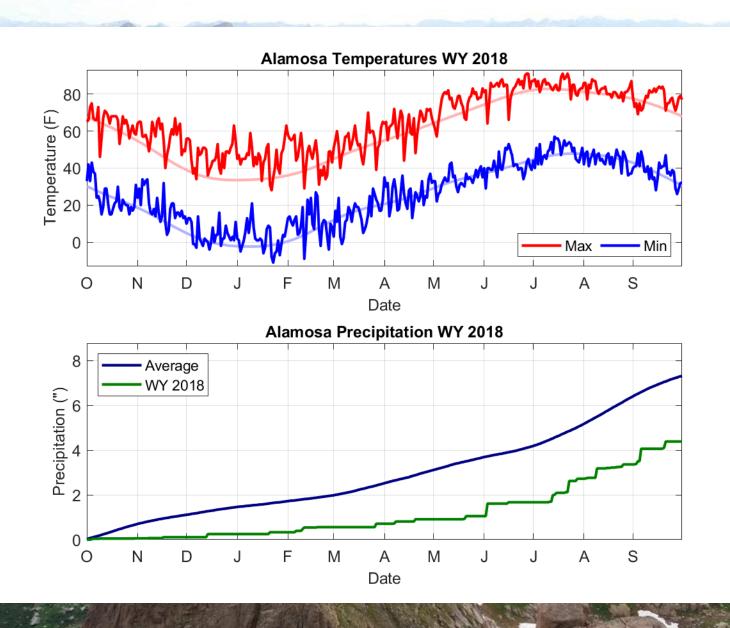


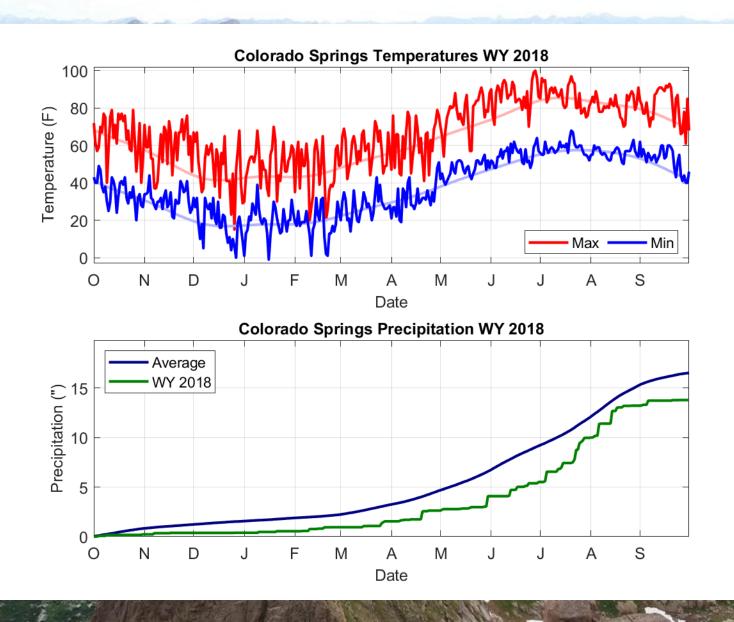


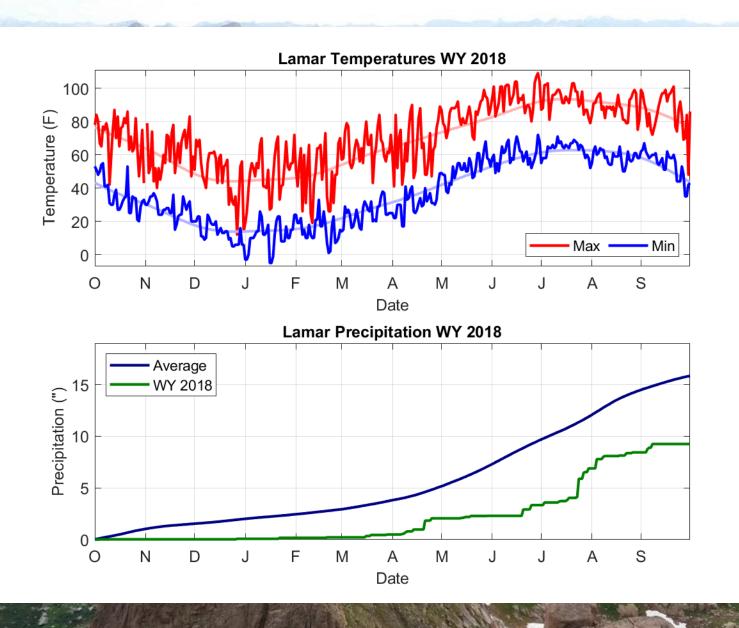




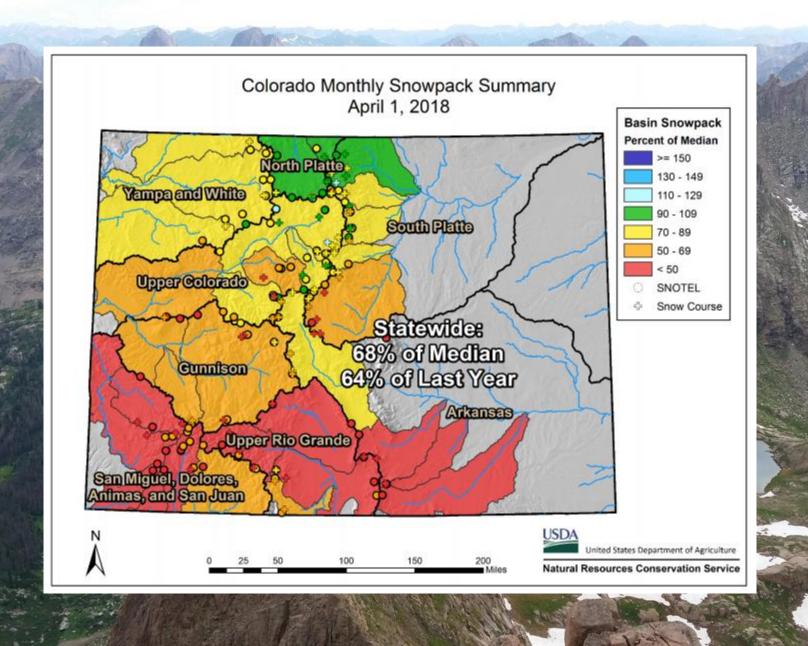


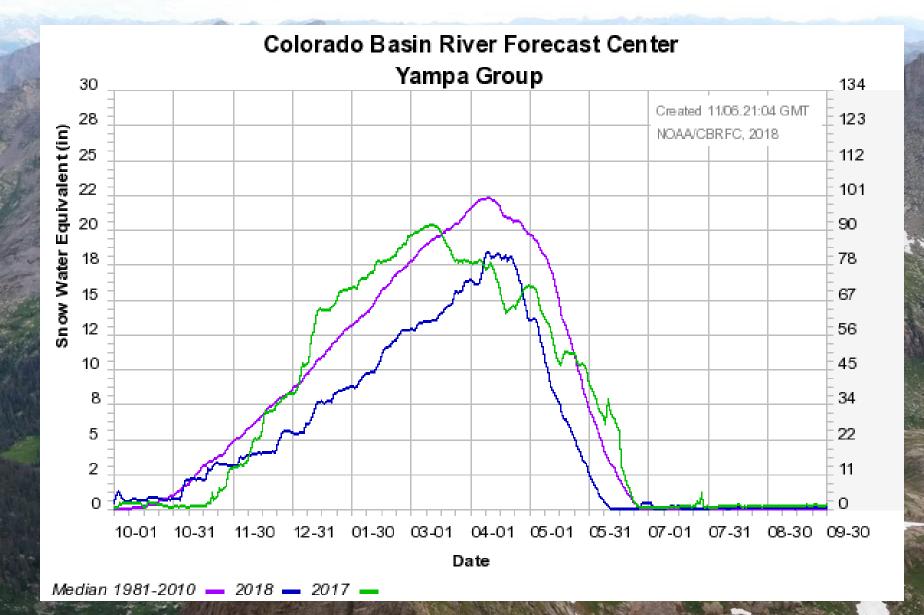


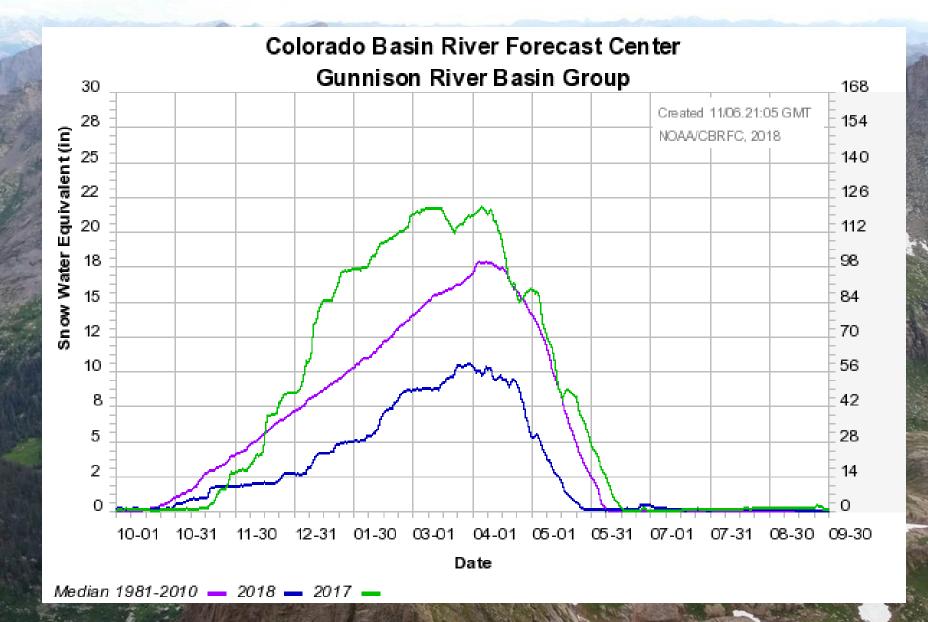


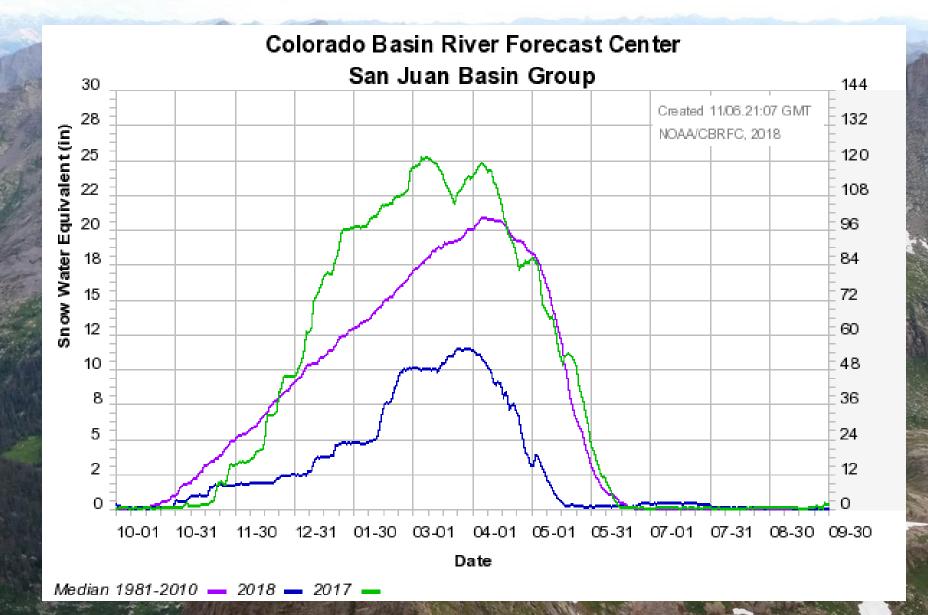


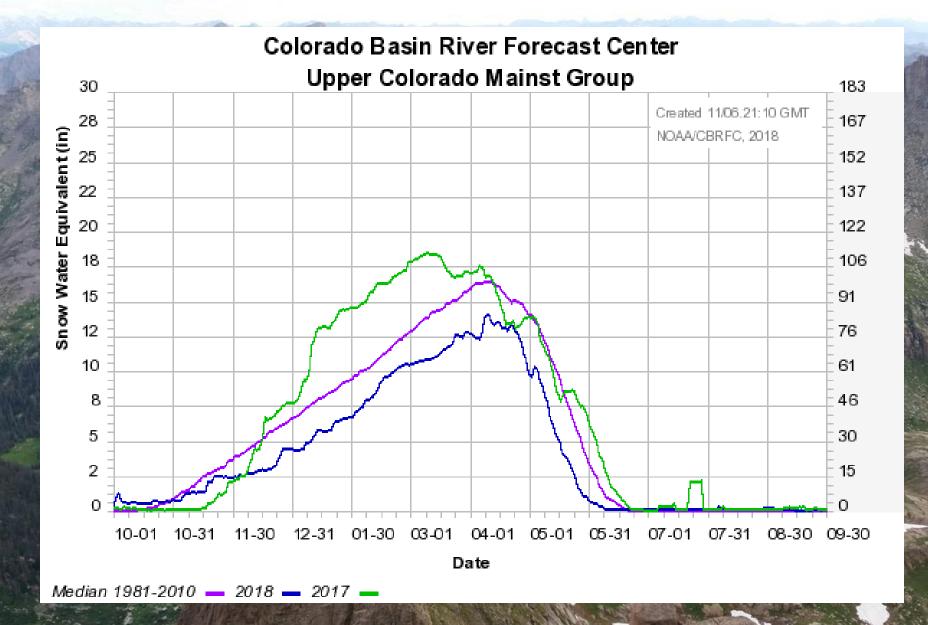


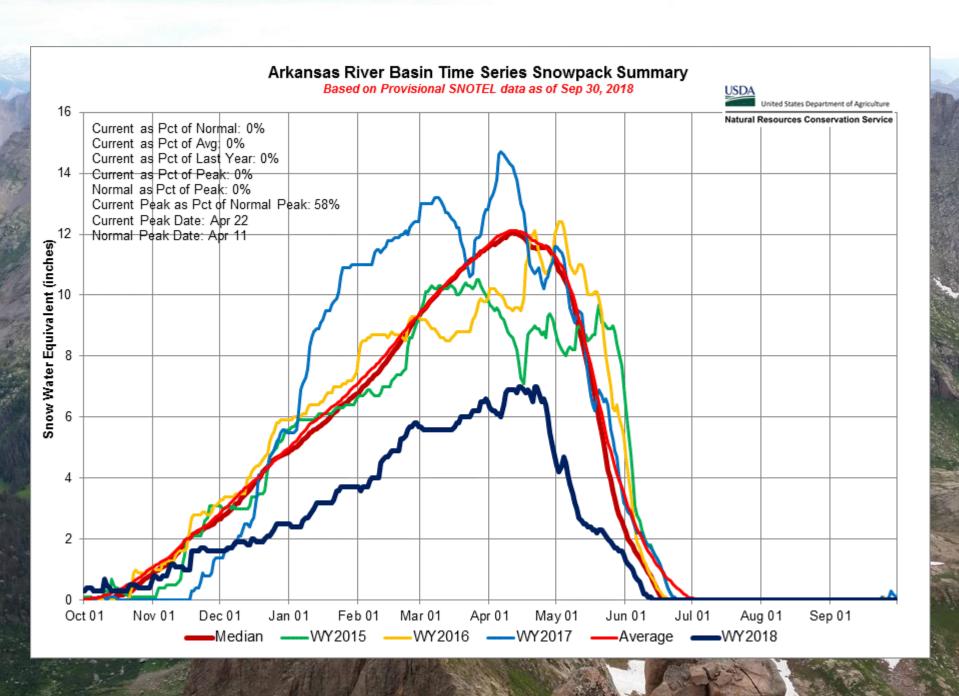


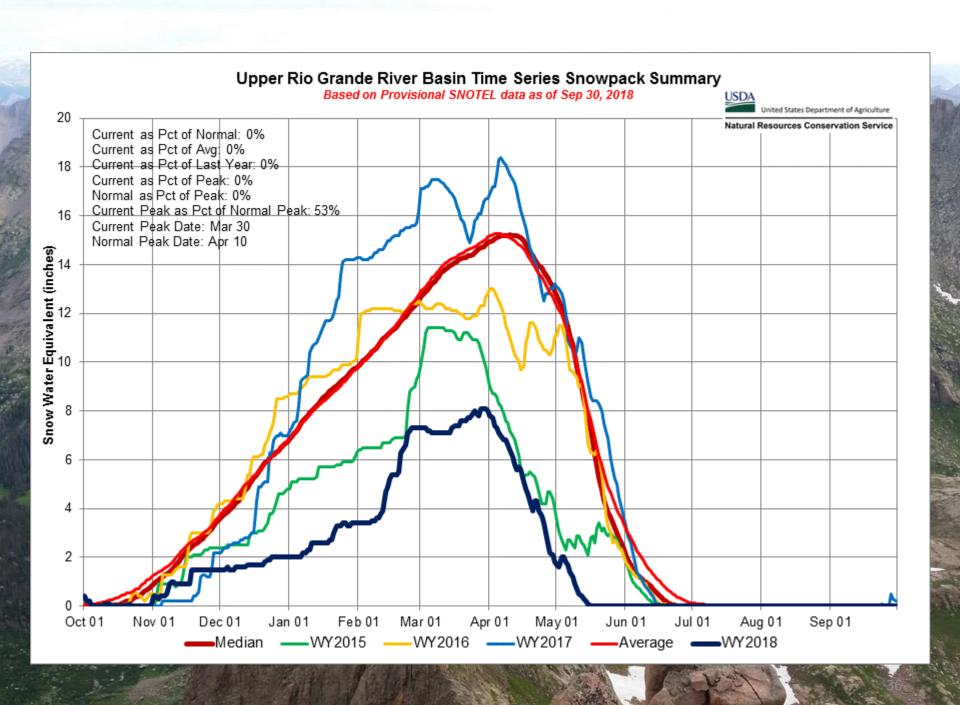


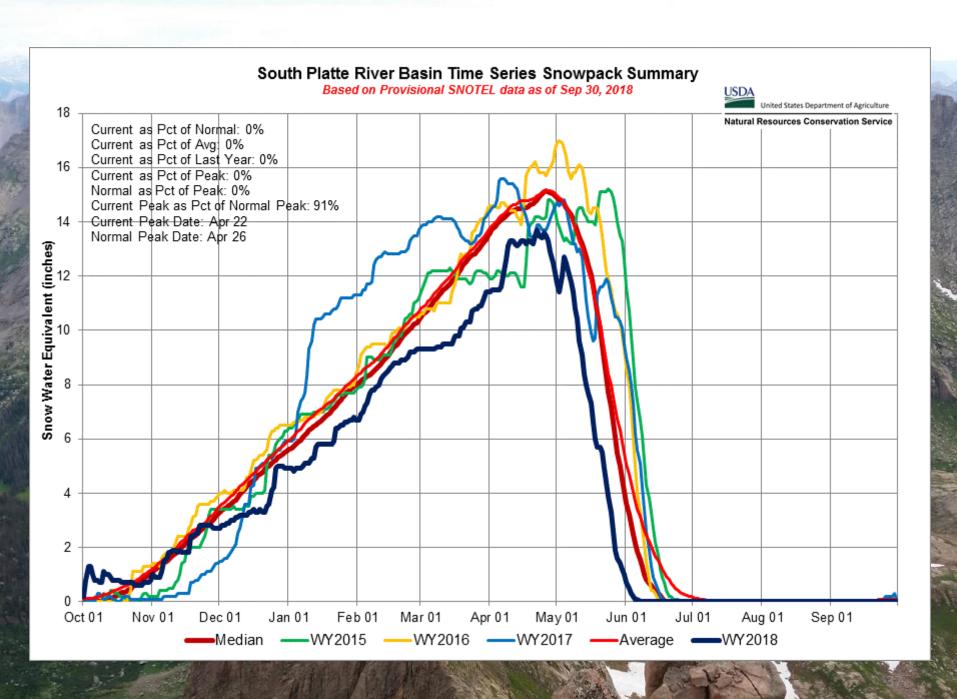


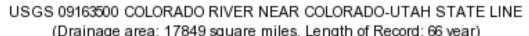


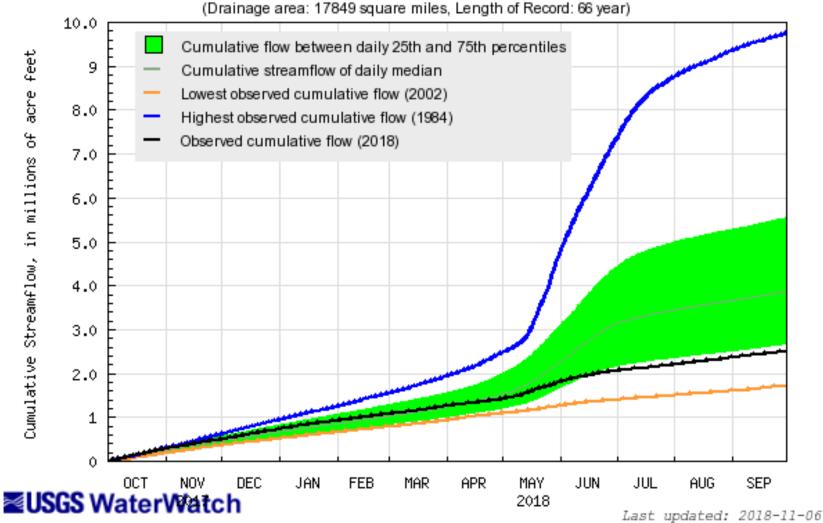


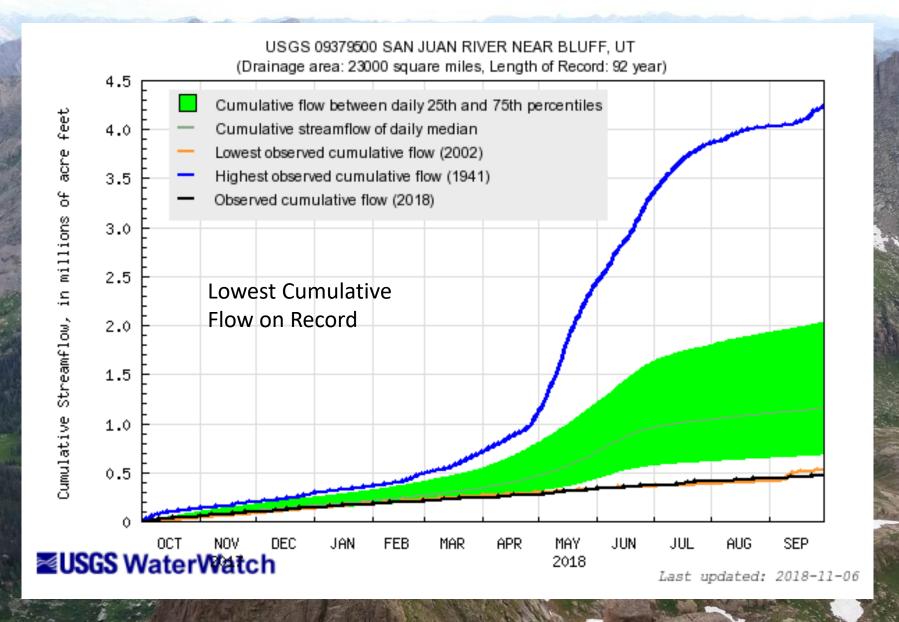


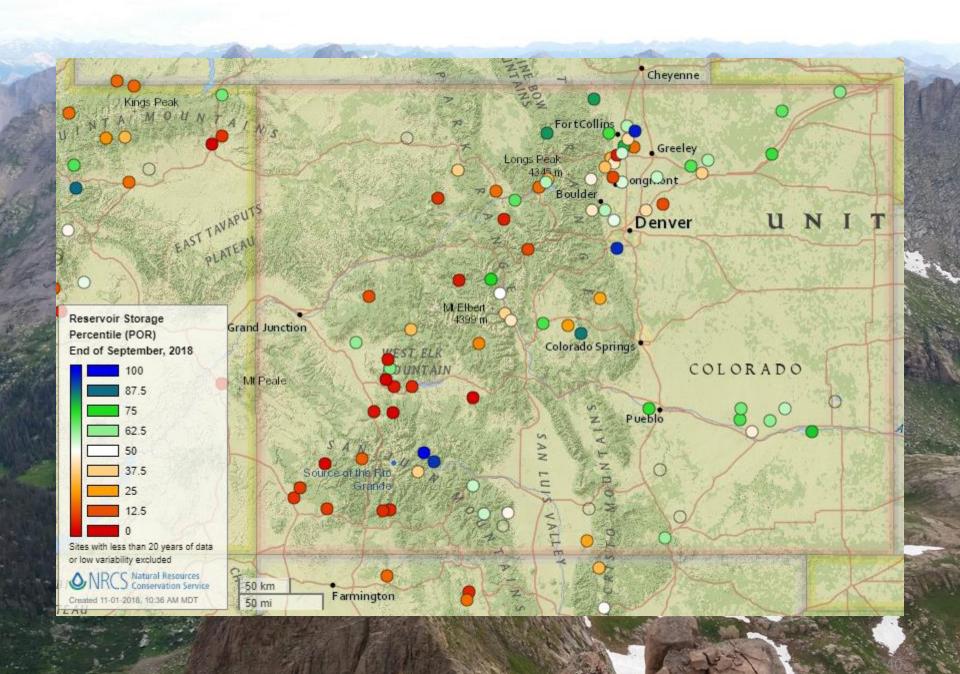


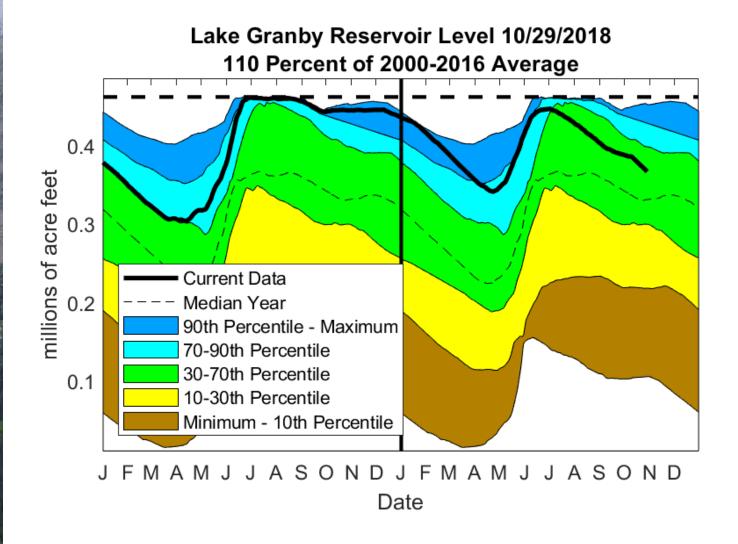


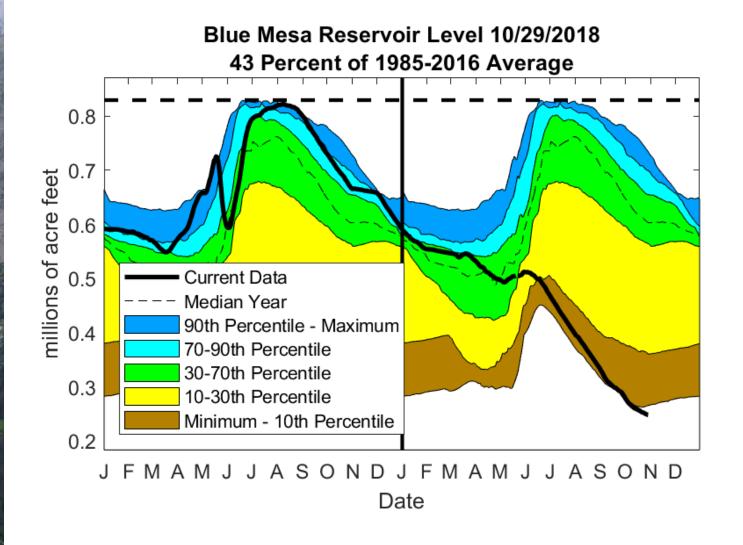


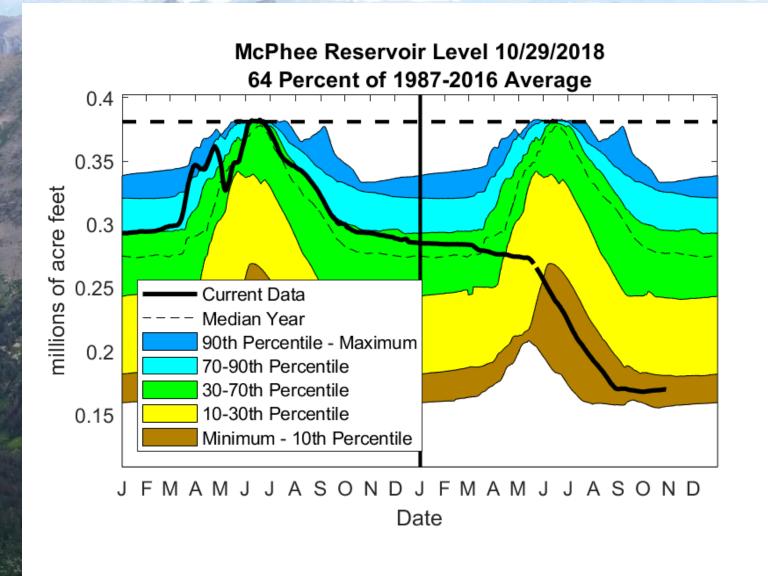




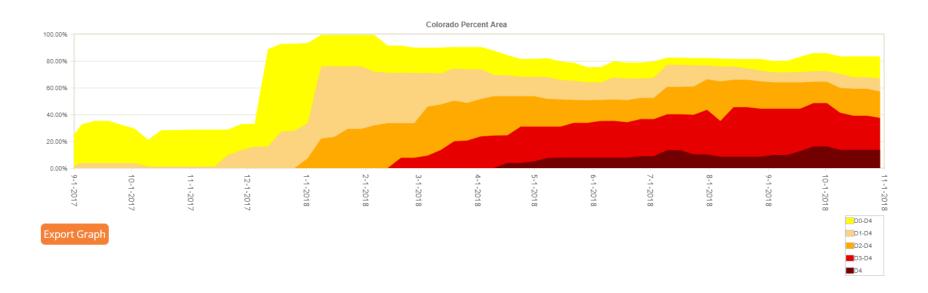








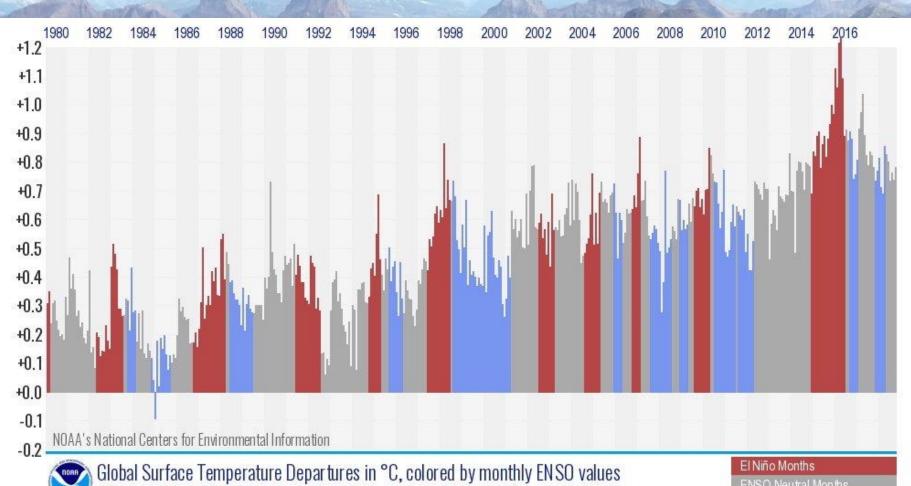
Drought Over Colorado WY 2018... Yikes!



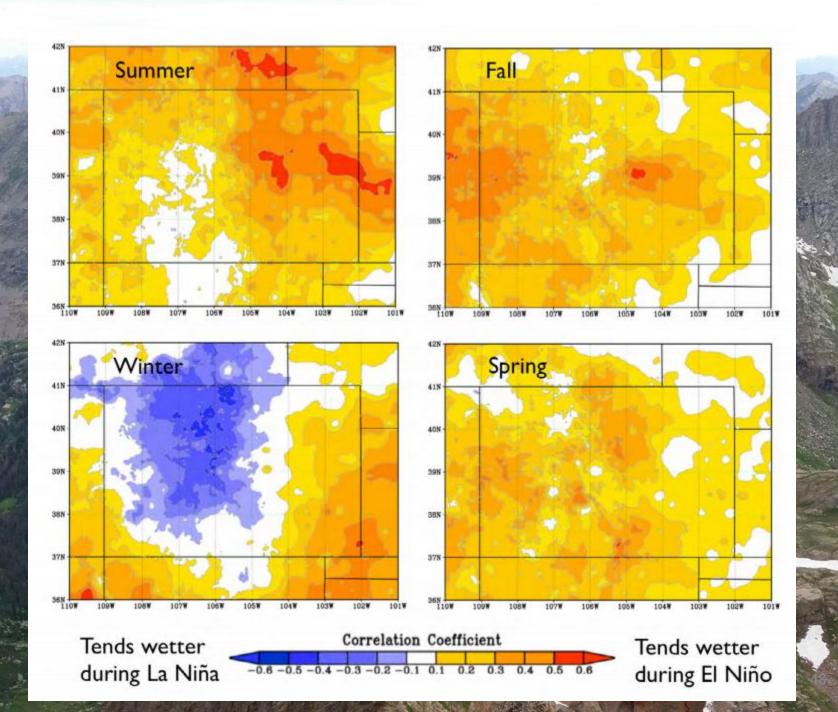


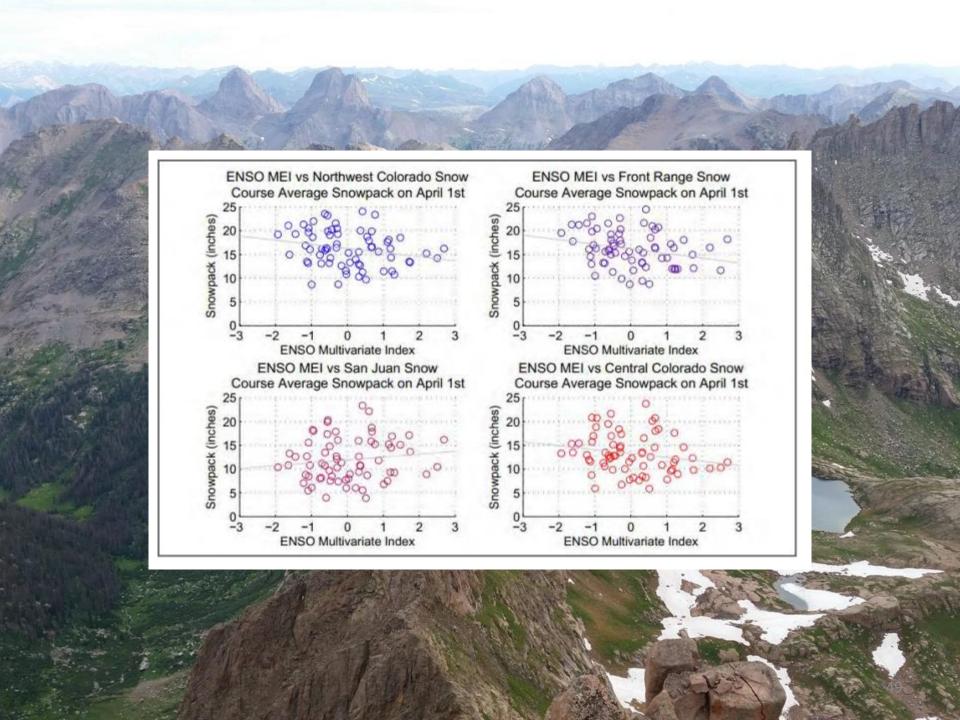


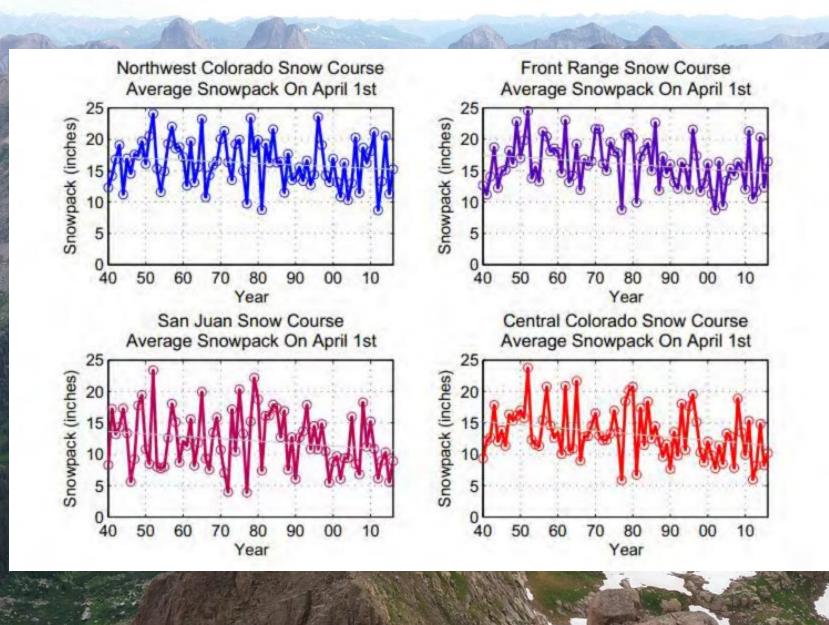


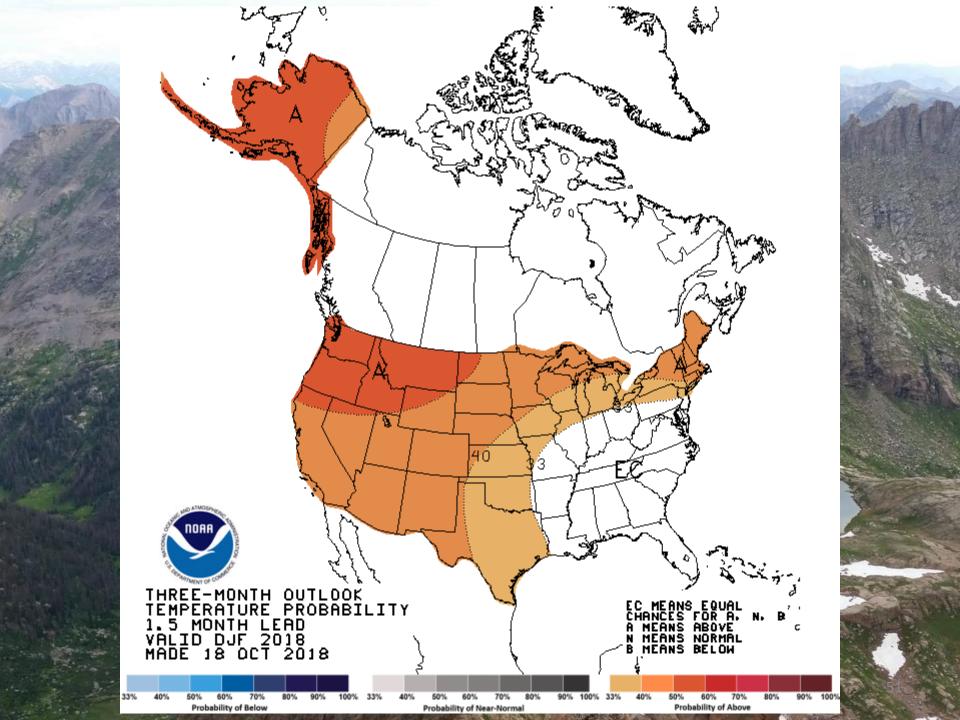


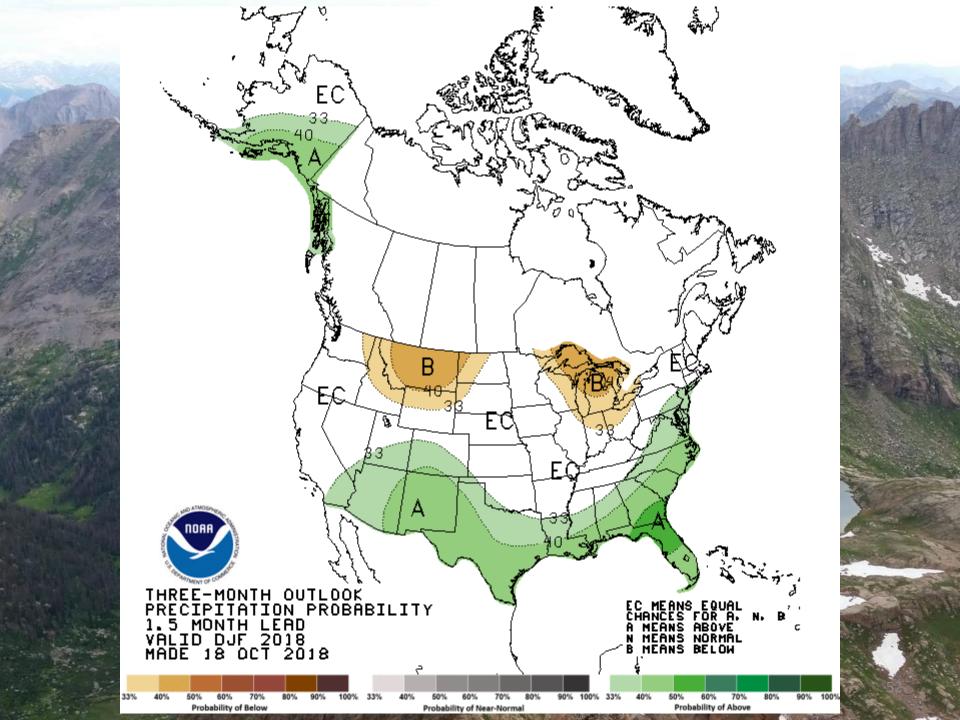
Jan 1980 through Sep 2018

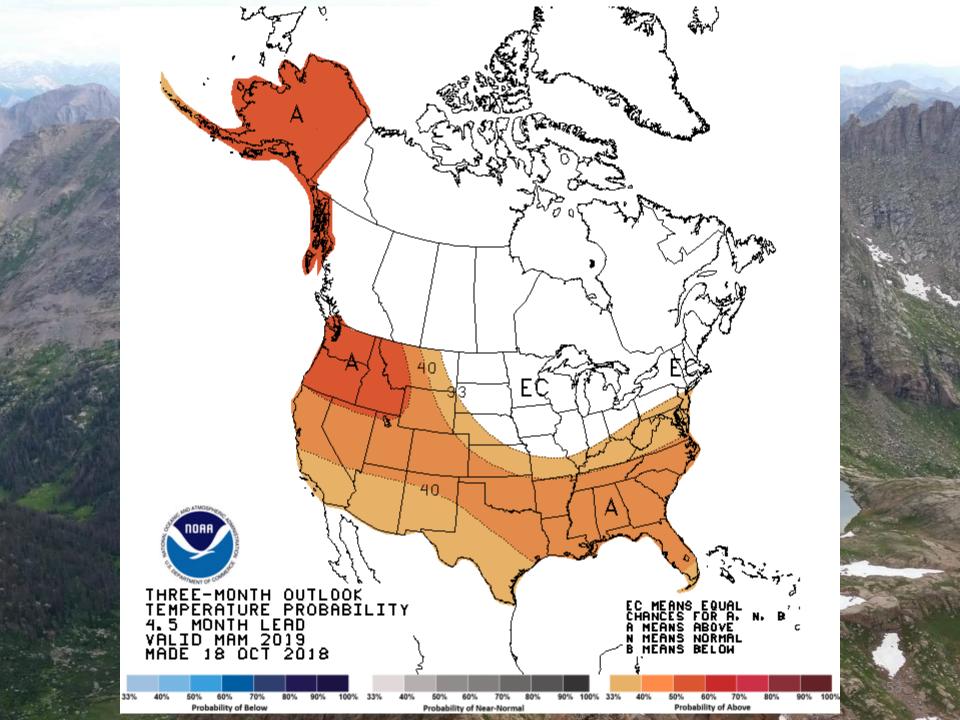


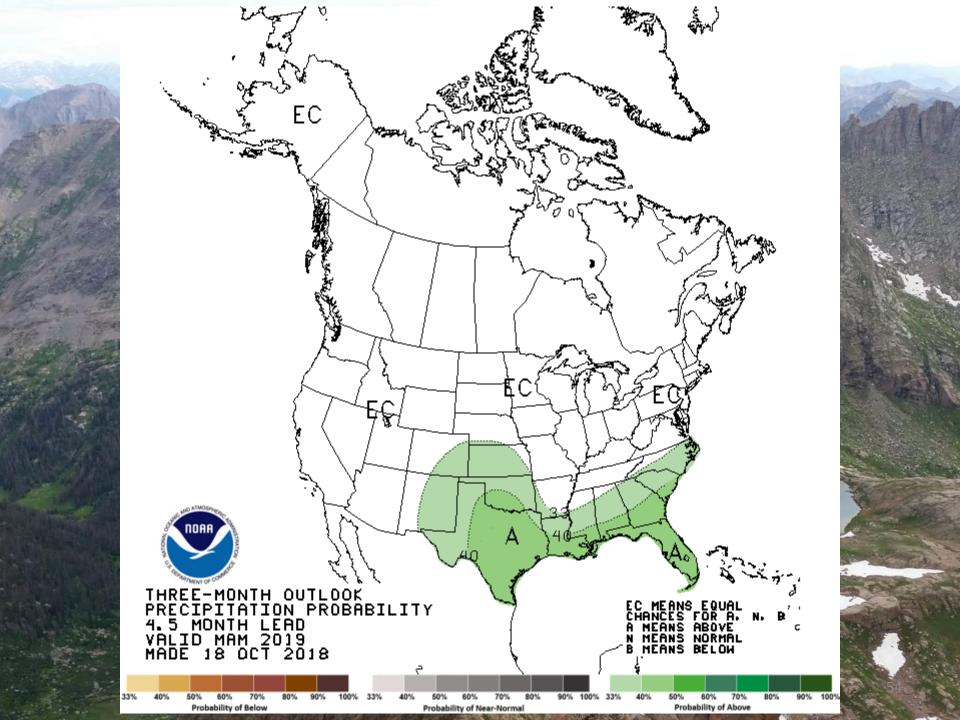




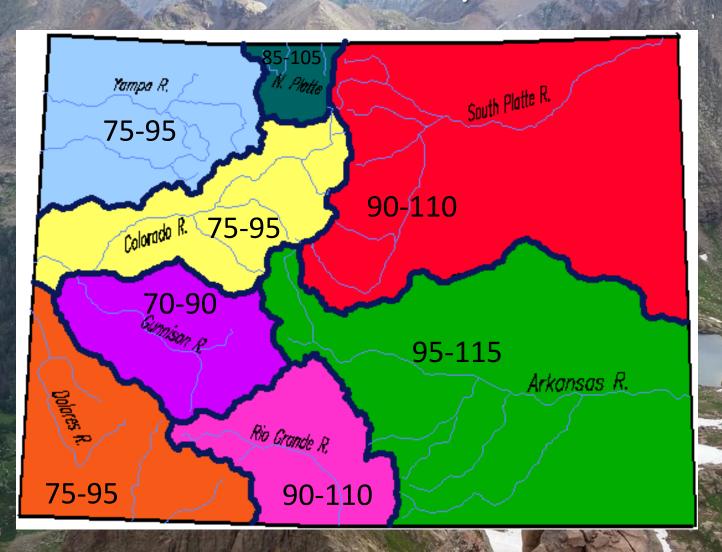








Peak Snowpack (My Dart Board Prediction)



Peak Snowpack (My Dart Board Prediction)

Conclusions

- Water Year 2018 was one to remember, and not the kind you want. The warmest, and second driest on record thanks in large part to the area west of the divide. Thank goodness our reservoirs were full
- Snowpack should be significantly better than last year, but we should measure our expectations (think 20th – 60th percentile range)
- Holding onto El Niño into the spring and summer could help water supplies

Providing information and expertise on Colorado's complex climate

Thanks, and let's keep in touch!

Russ Schumacher – Colorado State Climatologist – russ.schumacher@colostate.edu Becky Bolinger – Colorado Assistant State Climatologist – becky.bolinger@colostate.edu Peter Goble – Service Climatologist and Drought Specialist – peter.goble@colostate.edu Zach Schwalbe – CoAgMET Manager – zach.schwalbe@colostate.edu Nolan Doesken –State Climatologist Emeritus – nolan.doesken@colostate.edu