

## **Quantifying The Drivers and Impacts of Natural Disturbance Events –**

### **The 2013 Colorado Floods**

#### **Drought Figure**

In this dataset, what years are near normal, extreme drought, and extreme wet on the Palmer Drought Severity Index?

What are the patterns of drought within Colorado that you observe using this Palmer Drought Severity Index?

What were the drought conditions immediately before the September 2013 floods?

#### **Monthly Precipitation Figure**

How much rain generally falls within one month?

Is there a strong annual or seasonal pattern? (Remember, with interactive Plotly plots you can zoom in on the data)

Do any other events over the last 65 years equal the September 2013 event?

#### **Daily Precipitation Figure**

What dates were the highest precipitation values observed?

What was the total precipitation on these days?

In what units is this value?

#### **Stream Discharge**

What was the stream discharge prior to and during the flood events?

#### **Using Data to Understand Disturbance Events**

What other types of questions could this or similar data be used to answer?

What types of disturbance events in your local area could you use data to quantify the causes and impact of?