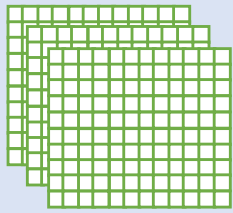


# How we are performing our processing currently

Operates on single profile through time

Input Data



WRF Downscaled  
Precip hourly totals  
(ERA- Interim)

Pre-process

Compute  
Daily Precip  
Totals



Compute  
Duration  
Totals



Compute  
Annual Max  
Series  
(AMS)

Analyze

Fit to  
distributions  
using  
L-moments



Pull values  
at Intervals  
from fitted  
distrib's



Select distribution

K-S  
test

A-D  
test



Randomly  
Sample  
Distribution

Fit Sample  
to  
Distribution

Pull Values  
at Intervals  
from Fitted  
Distribution

Bootstrap 500x

Estimate  
5<sup>th</sup>/95<sup>th</sup>  
Bounds

## Confidence estimation Method:

The percentile interval method simply returns the  $100 \cdot \alpha^{\text{th}}$  bootstrap sample's values for the statistic.