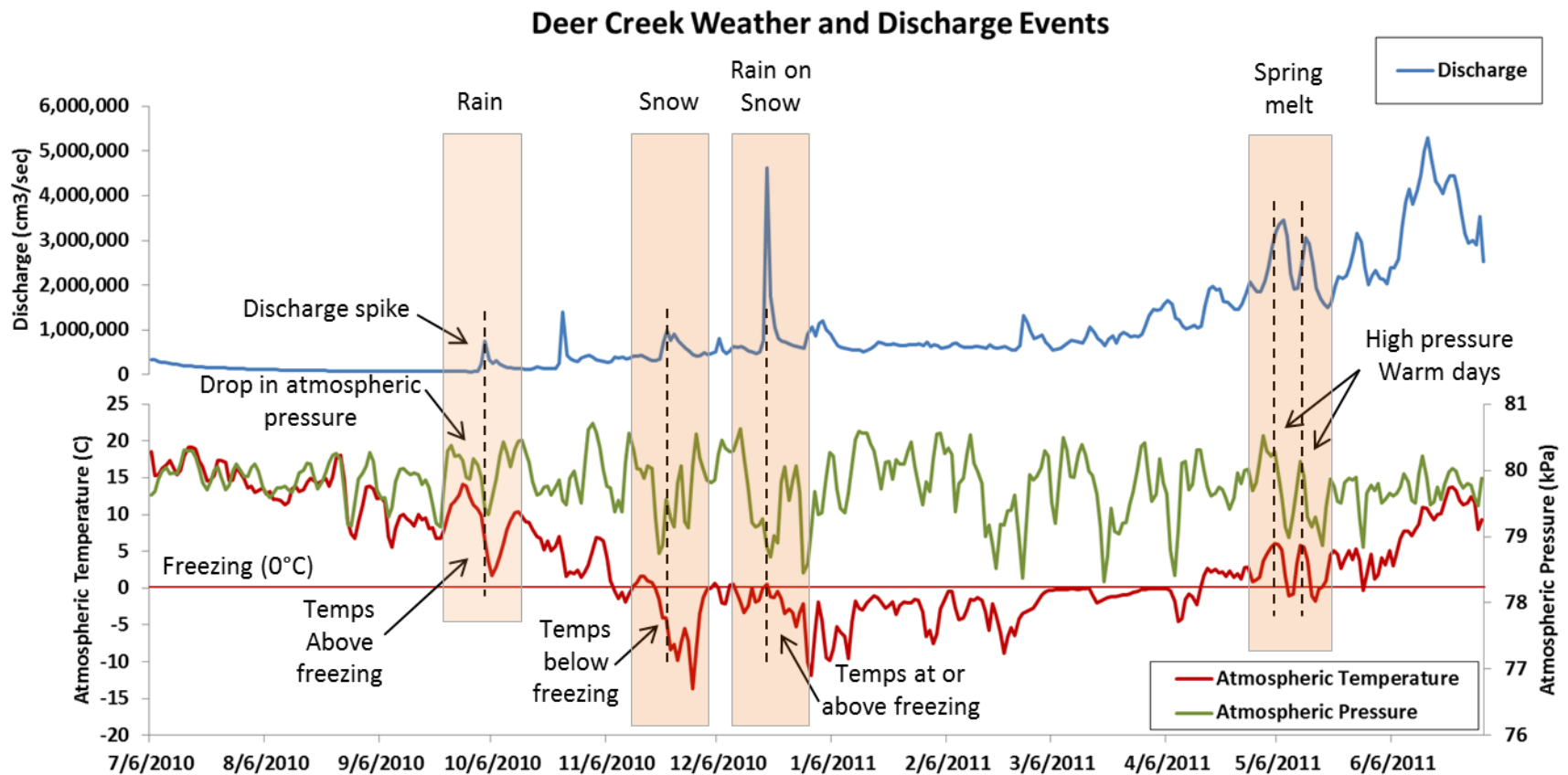
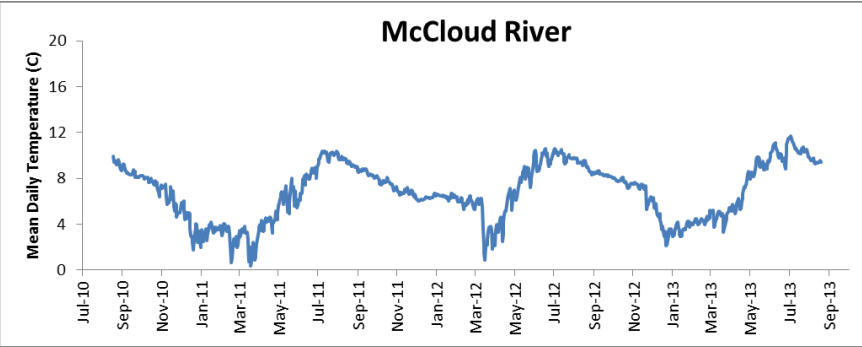
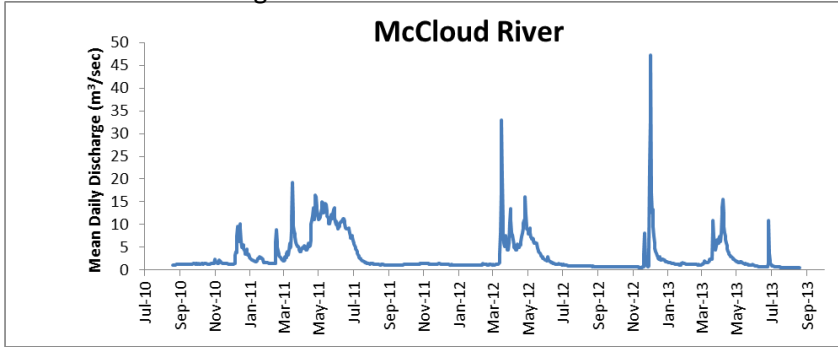


**The Herbst Lab** at the Sierra Nevada Aquatic Research Lab ([herbstlab.msi.ucsb.edu](http://herbstlab.msi.ucsb.edu)), University of California  
 Climate Change Monitoring Sentinel Stream Network

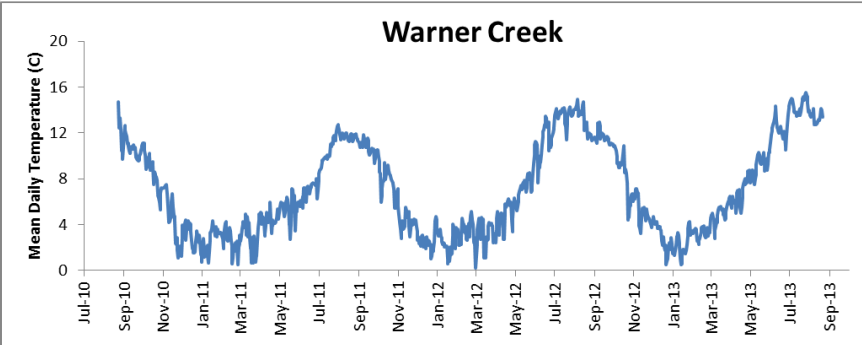
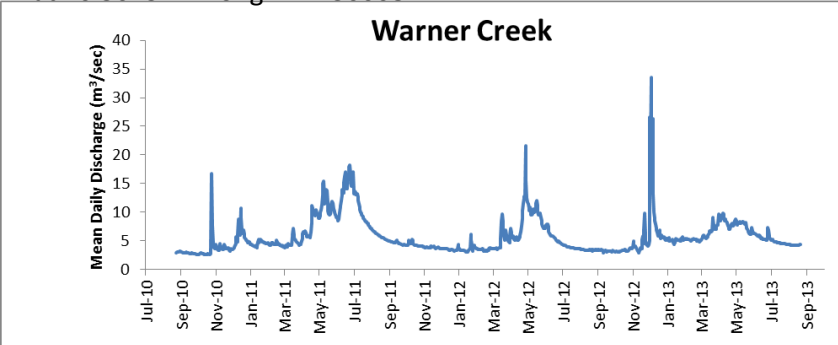
The following hydrographs were developed from stage height measurements made every 1 ½ hours using pressure transducers in each stream. Depth was calculated using Hoboware software (Onset Computer Corporation) where atmospheric pressure compensation came from transducers placed in nearby trees. Discharge was calculated using slope-area discharge estimates and Manning’s roughness coefficient was back calculated such that discharge values matched those calculated from a 100 point survey of depth and velocity at each stream on the day of transducer deployment or download. The first set of example data from Deer Creek is meant to illustrate how various climatic events (e.g. rain event, snow event, snow melt) can be discerned from this data set.



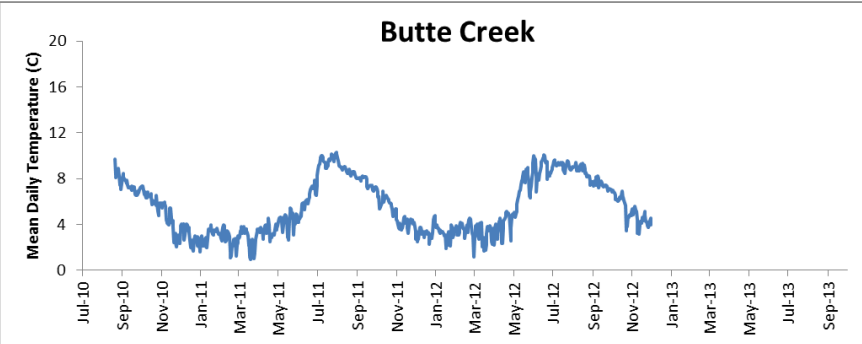
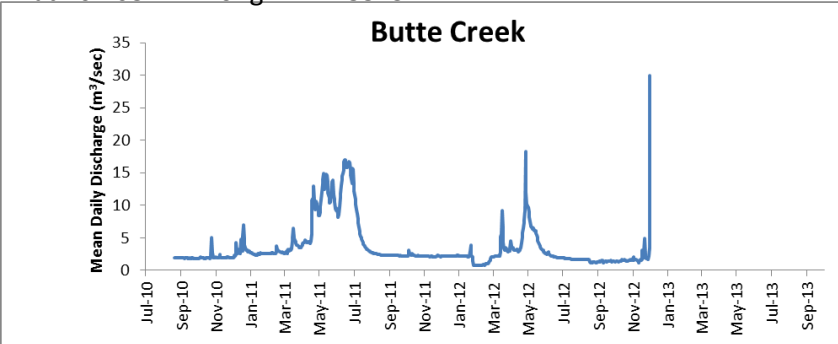
Lat 41.25541 long -121.8803



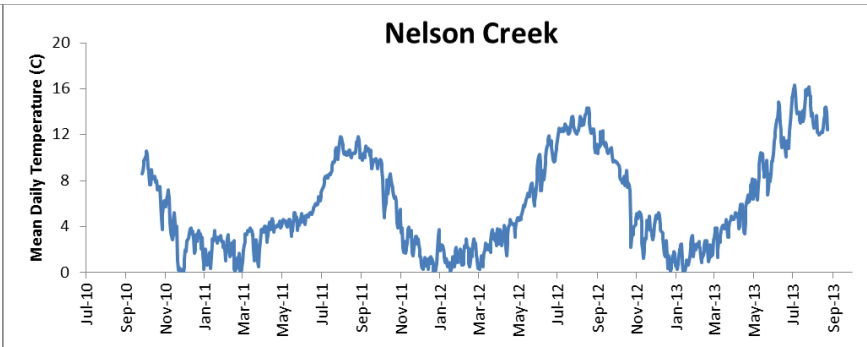
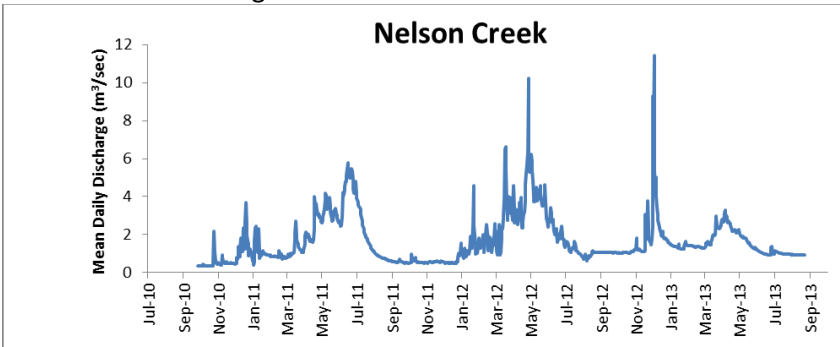
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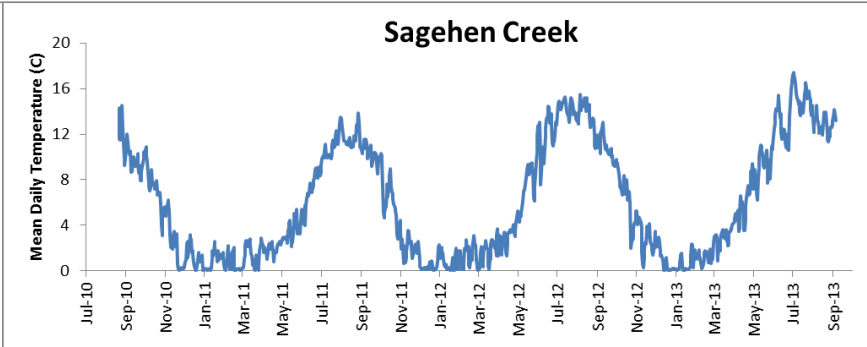
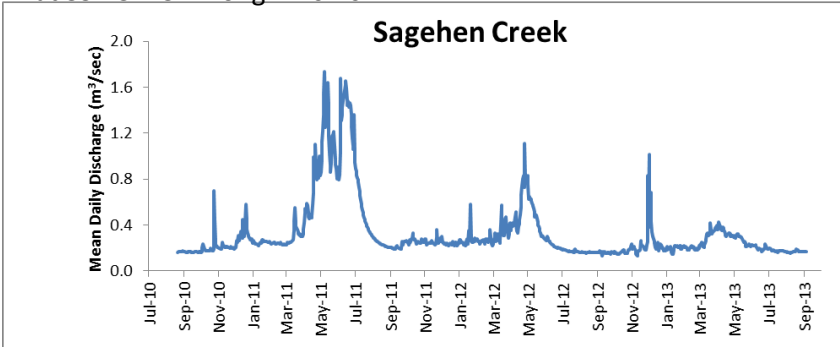
Lat 40.10814 long -121.48823



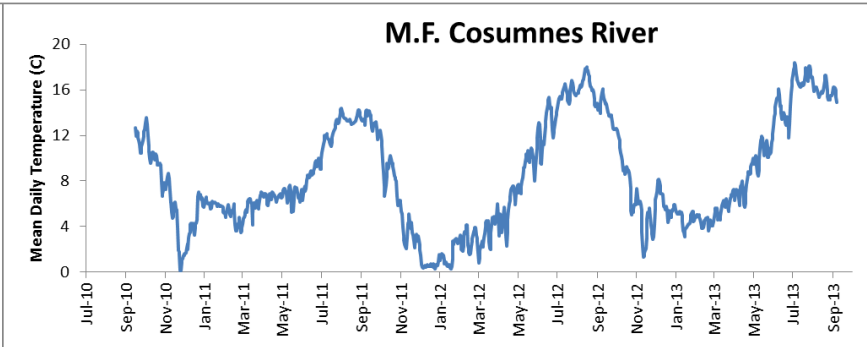
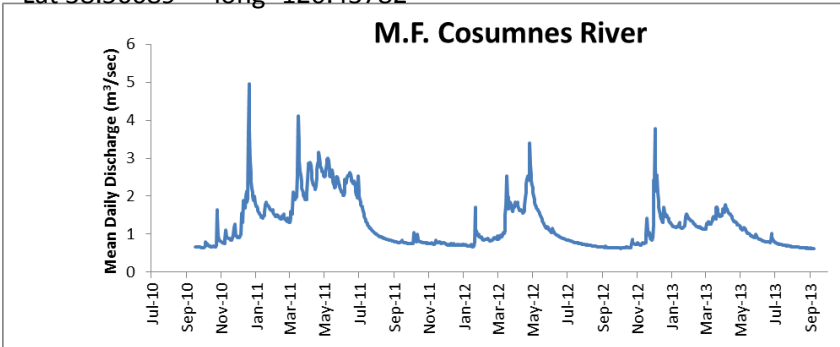
Lat 39.81098 long -120.81943



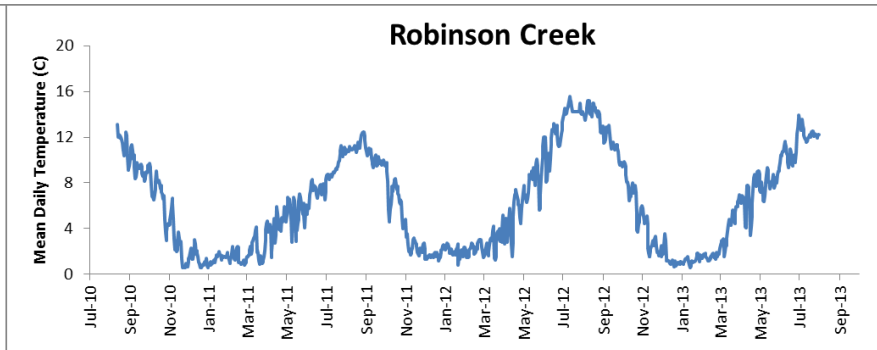
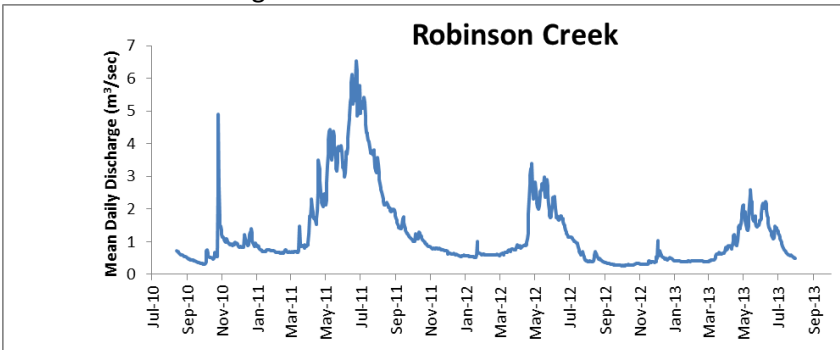
Lat 39.43273 long -120.2027



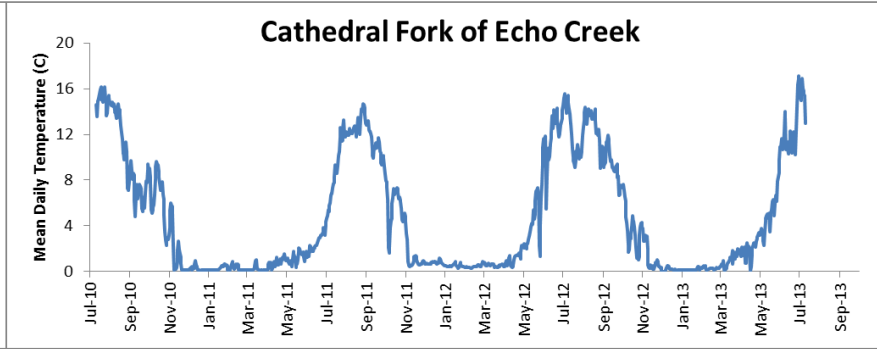
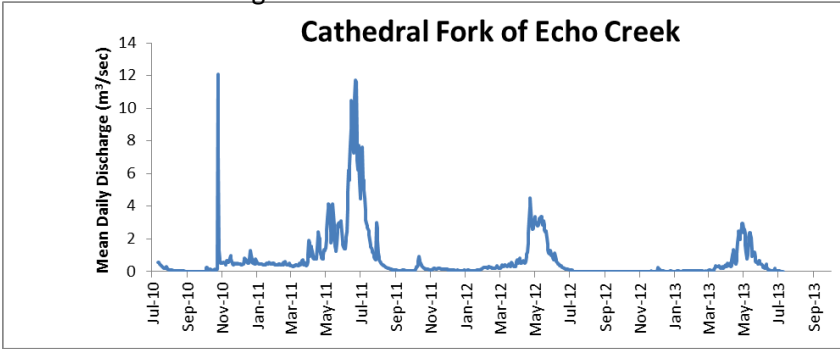
Lat 38.56689 long -120.43782



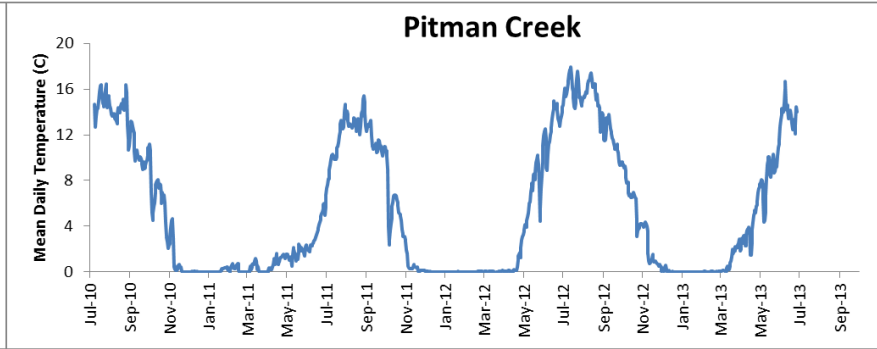
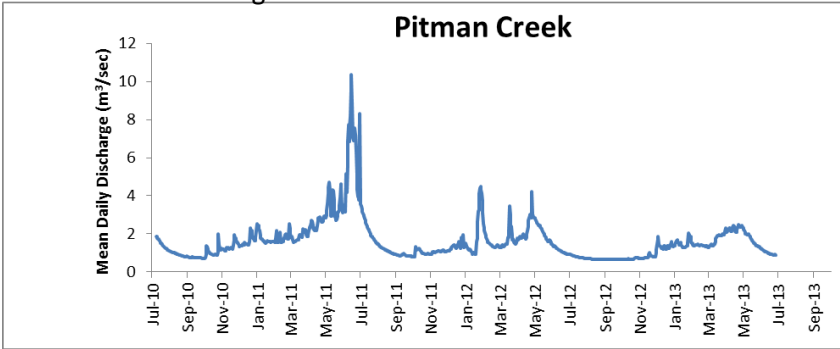
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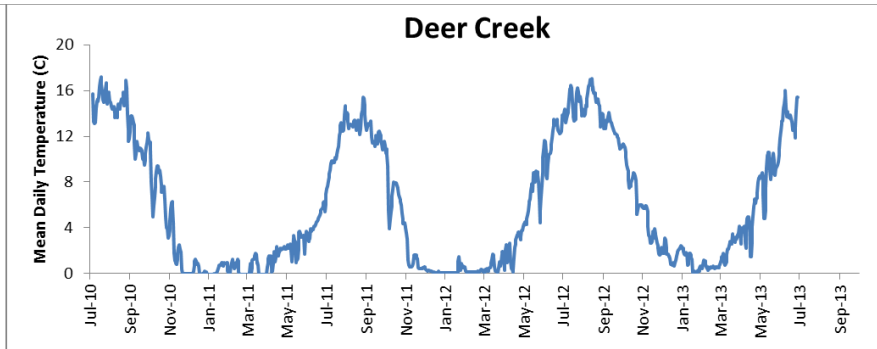
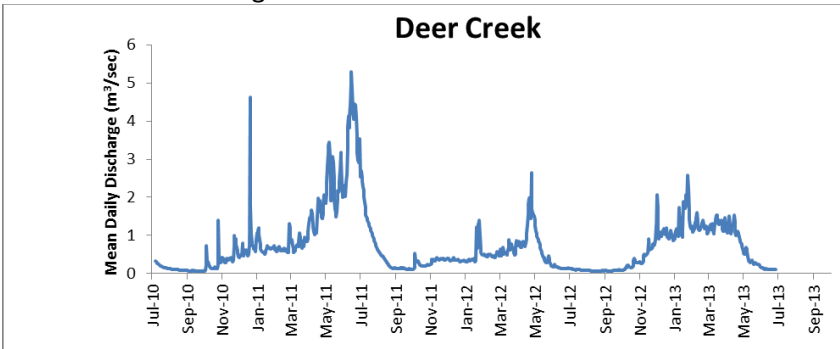
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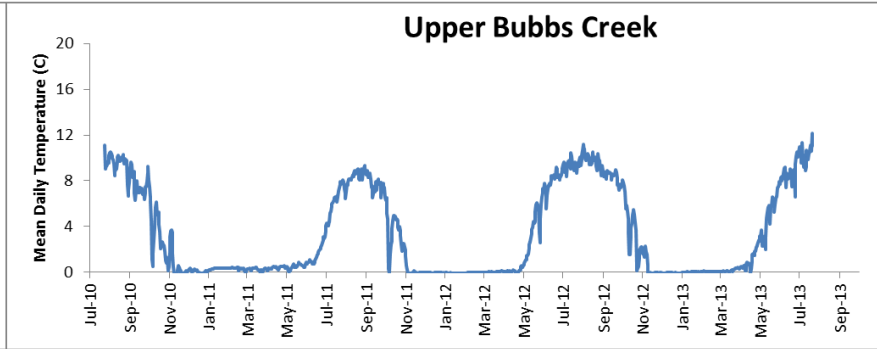
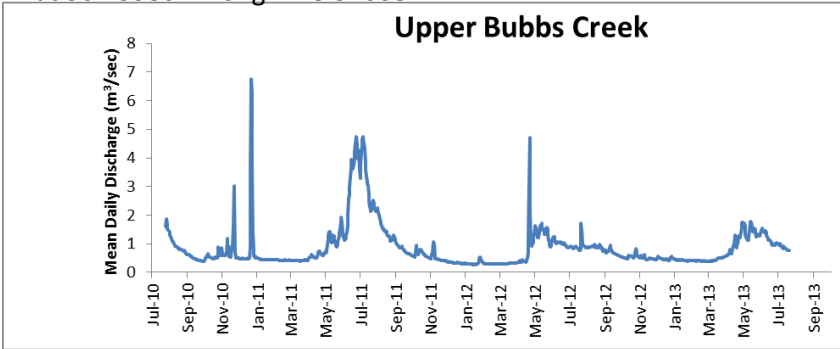
Lat 37.19488 long -119.20907



Lat 37.00682 long -119.06392



Lat 36.73386 long -118.37608



Lat 36.62743 long -118.39237

