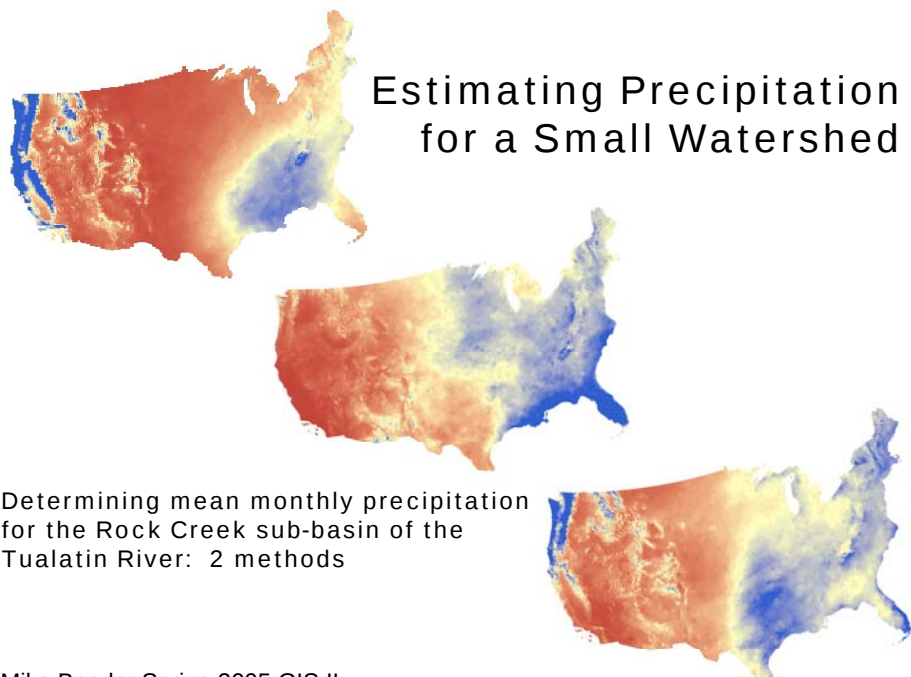
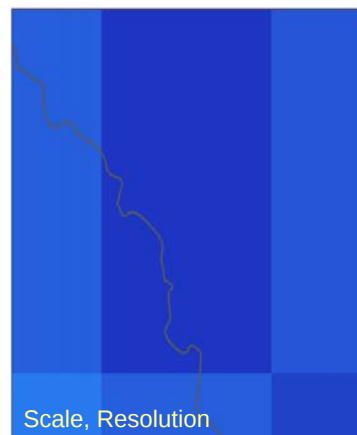
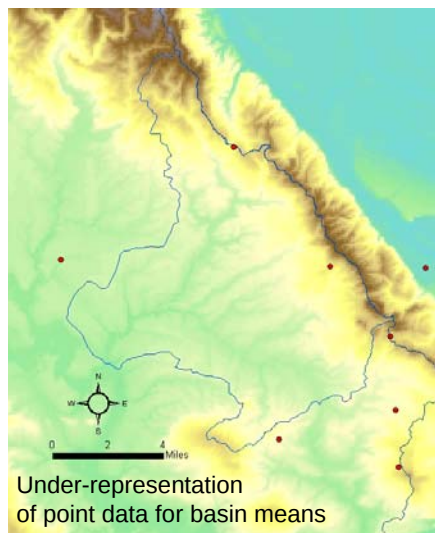
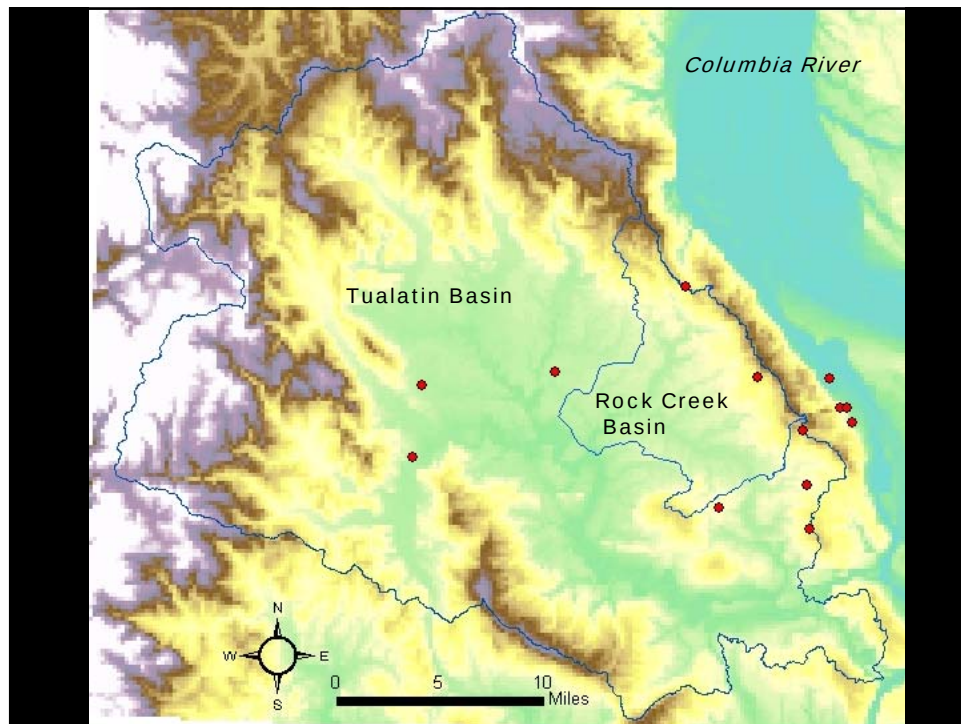




Considerations





Data Sources

Oregon Climate Service PRISM Data

- monthly grids 1950 – 2000
- monthly grids 1970 – 2000; 30yr normals

Oregon Climate Service point precipitation data; 1990 - 2004

- | | |
|------------------|------------------|
| -Beaverton SSW | -Forest Grove |
| -Cherry Grove 2S | -Hillsboro |
| -Dilly 1S | -Portland WBCity |

USGS Hydra Rainfall Network; ~1998 - 2003

provisional data

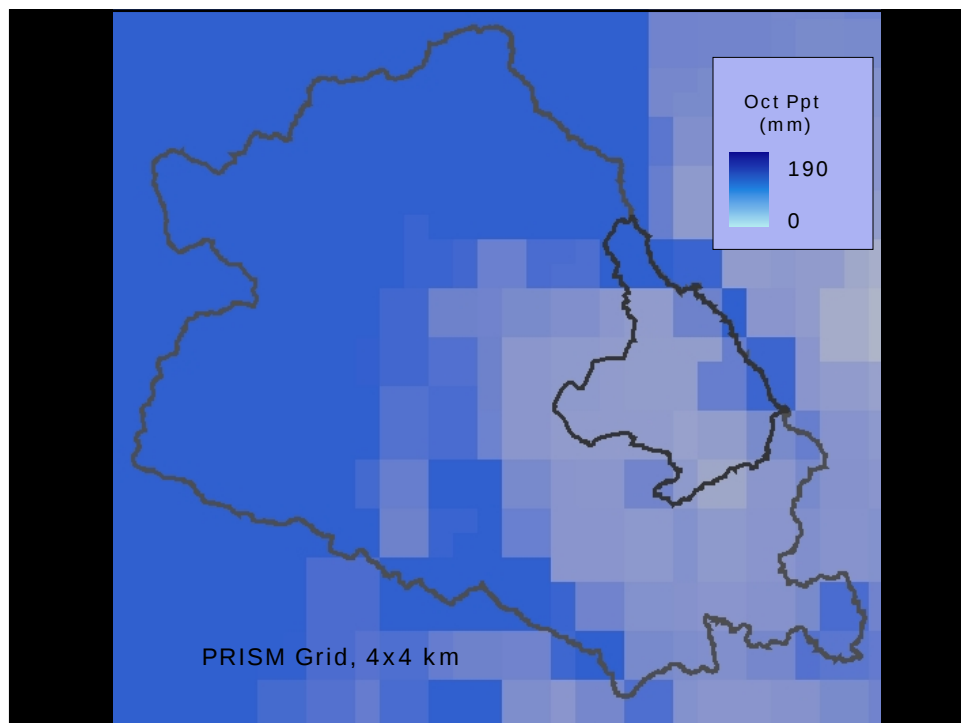
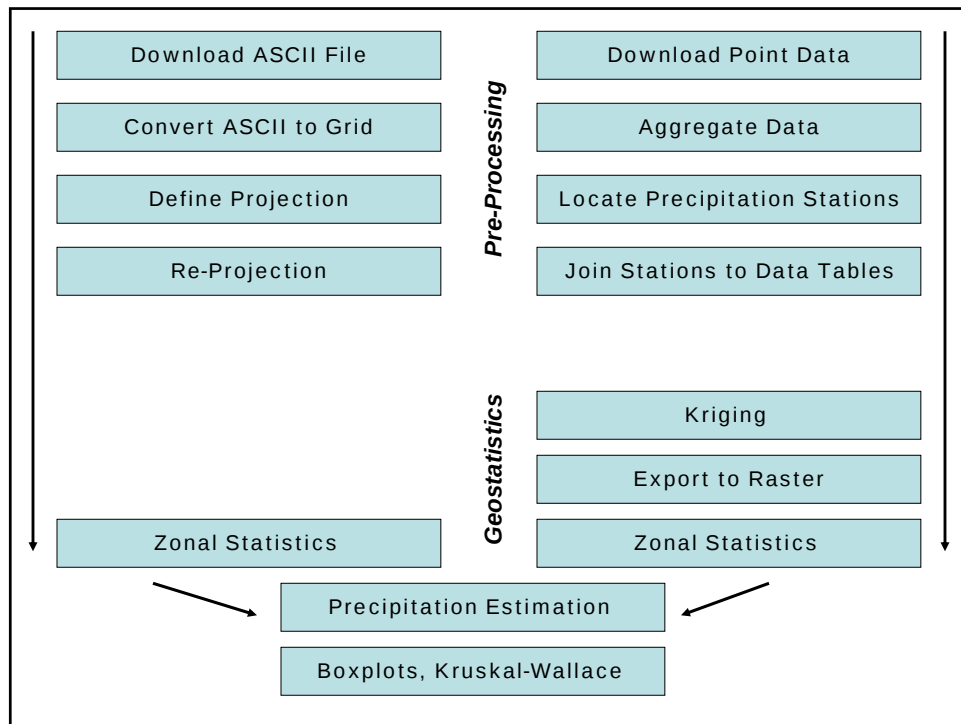
- | | |
|----------------|------------------------|
| -Bonny Slope | -Metro Learning Center |
| -EcoRoof | -Skyline School |
| -Maplewood | -Sylvania |
| -Sylvan School | |

PRISM: Parameter-elevation Regressions on Independent Slopes Model

<http://www.ocs.orst.edu/prism/>

<http://www.ocs.oregonstate.edu/index.html>

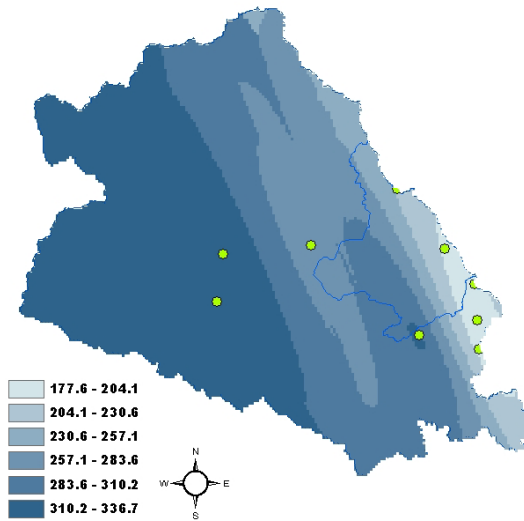
<http://or.water.usgs.gov/non-usgs/bes/>



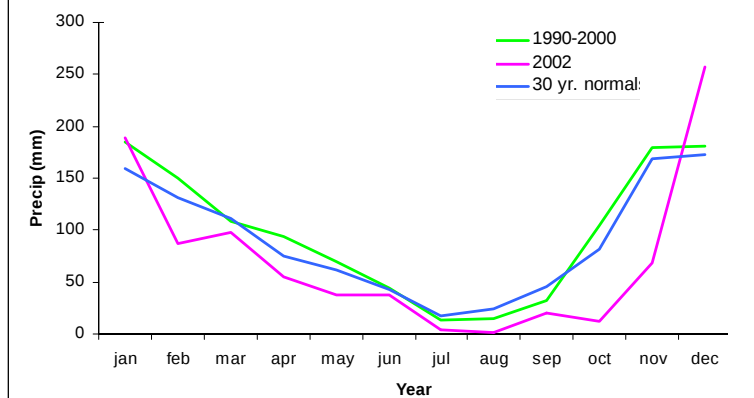
Kriging Surface December 2002

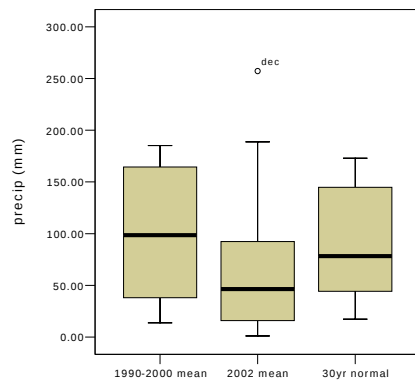
General Parameters

- spherical
- anisotropy
- non-zero nugget
- lag size: 0.015 - 0.035
- lag number: 12
- Method: Neighborhood
- Shape Type: Circular
- RMSE: 2 - 20



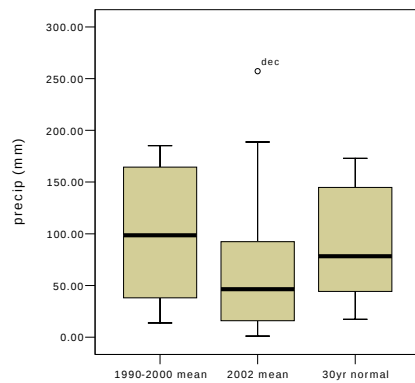
Mean Monthly Precipitation





Kruskal-Wallis

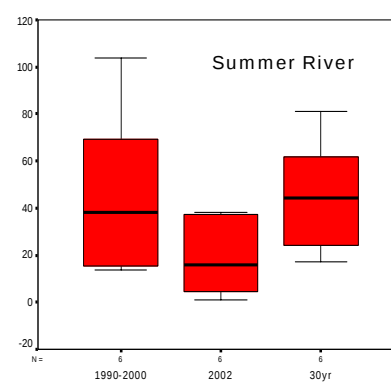
<u>Dataset</u>	<u>Chi-square</u>	<u>Sig.</u>
-Aggregated Annual	1.923	0.382



Kruskal-Wallis

<u>Dataset</u>	<u>Chi-square</u>	<u>Sig.</u>
-Aggregated Annual	1.923	0.382
-Summer River	4.784	0.091*

*significant at the 90% confidence level.



More work

Universal Kriging – trend removal
More Point Data
Learn VBA and other scripts

Questions?