

Thurs, 4-4-19

9. Correlation (cont.)

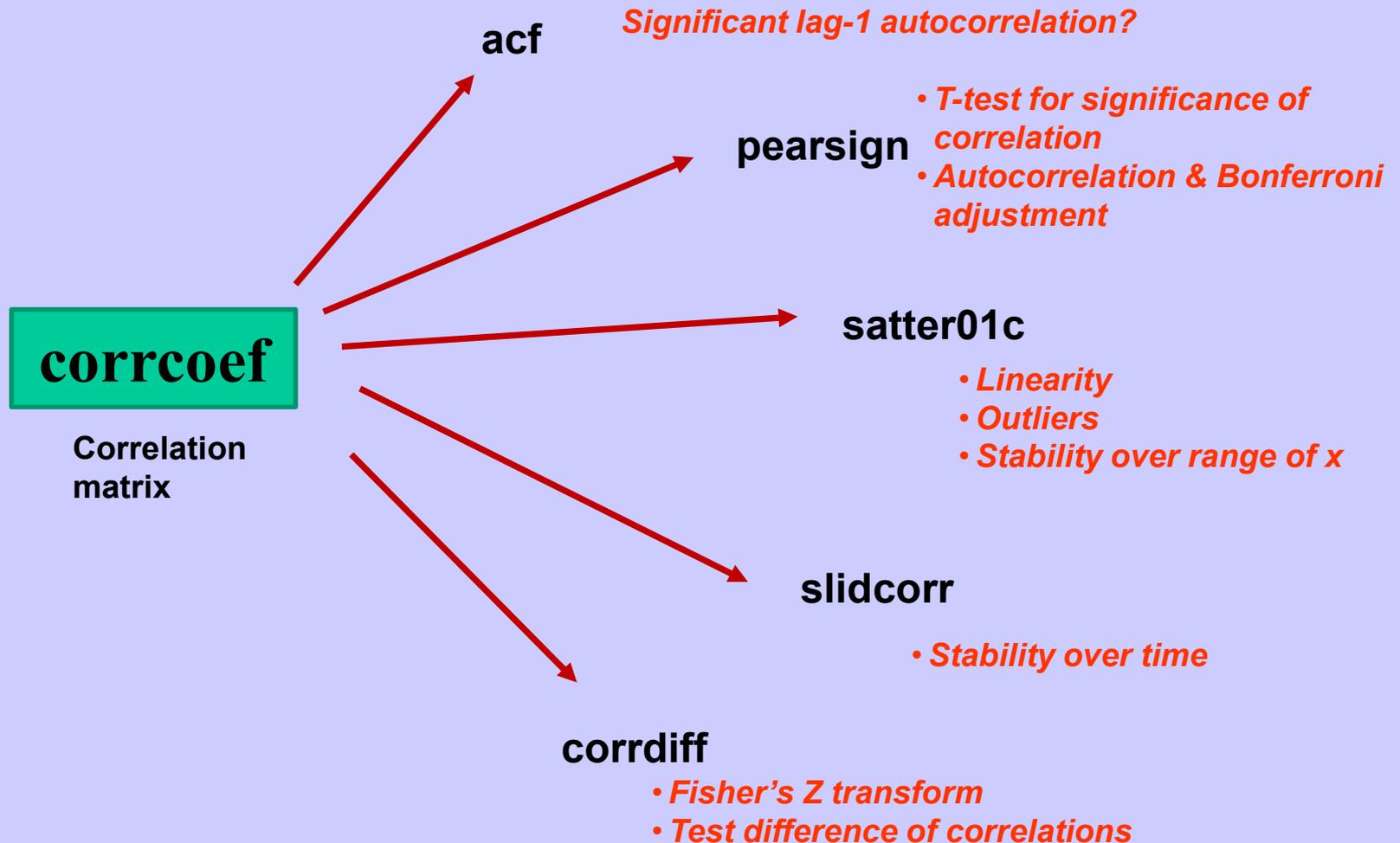
- 1. Caveats on interpretation**
- 2. Functions for correlation analysis**
- 3. Scatterplot diagnostics (demo09a)**
- 4. Sample runs of geosa9**

Assignment a9: due next Tuesday

Correlation: caveats to interpretation

1. Relationship may be nonlinear or outlier-driven
2. Samples may not be “random” samples
3. Correlation \neq causation
4. Statistical significance \neq practical significance
5. Lagged effects may be important

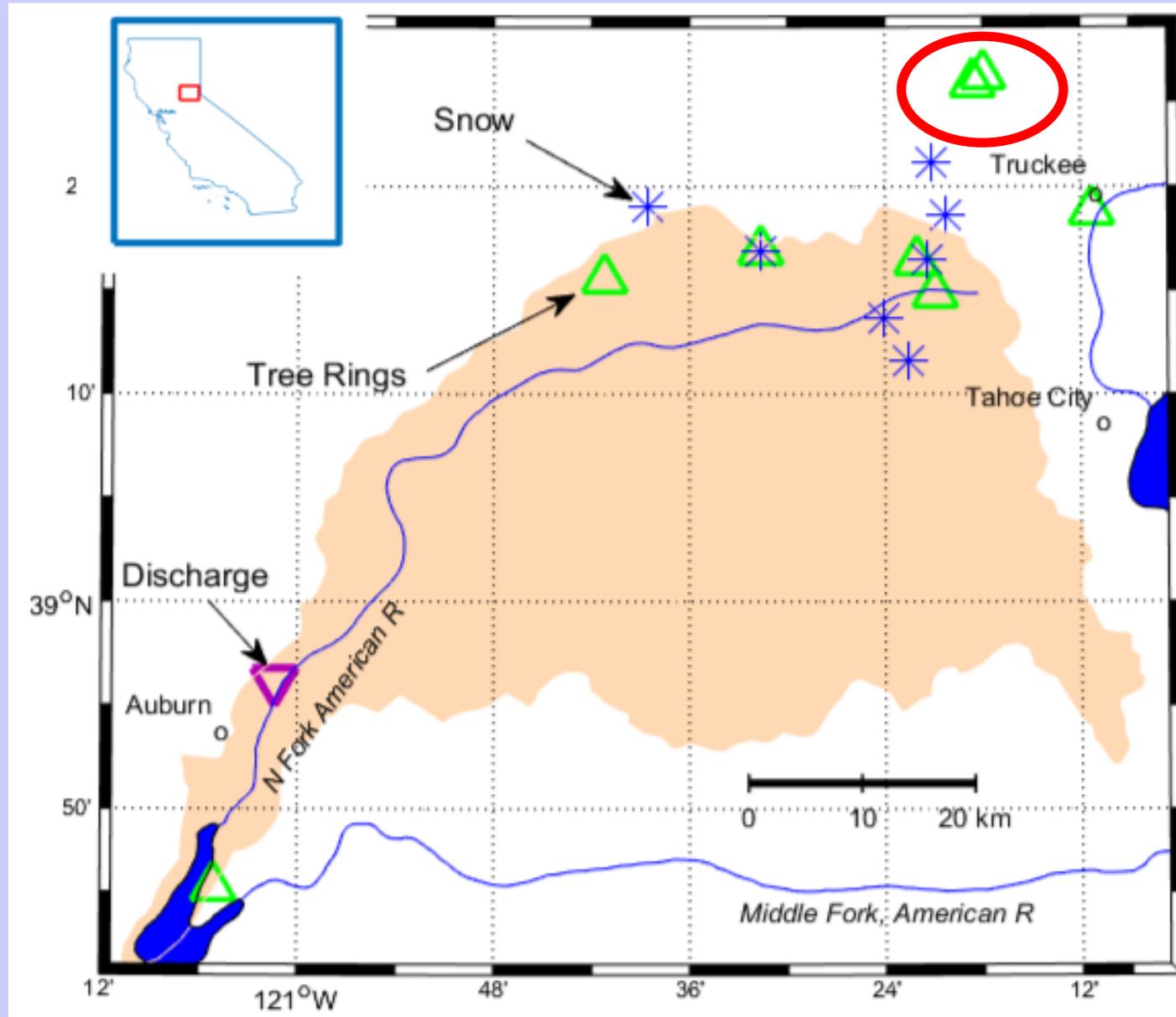
Functions for correlation analysis



demo09a—scatterplot diagnostics

- **Conditional scatterplots**
- **Corrdiff— testing difference of 2 non-zero correlations**
- **Tree-ring standard chronologies from mountain hemlock and red fir at Carpenter Ridge, CA**

Basin of North Fork American River



Sample runs of geosa9

Basin of North Fork American River

