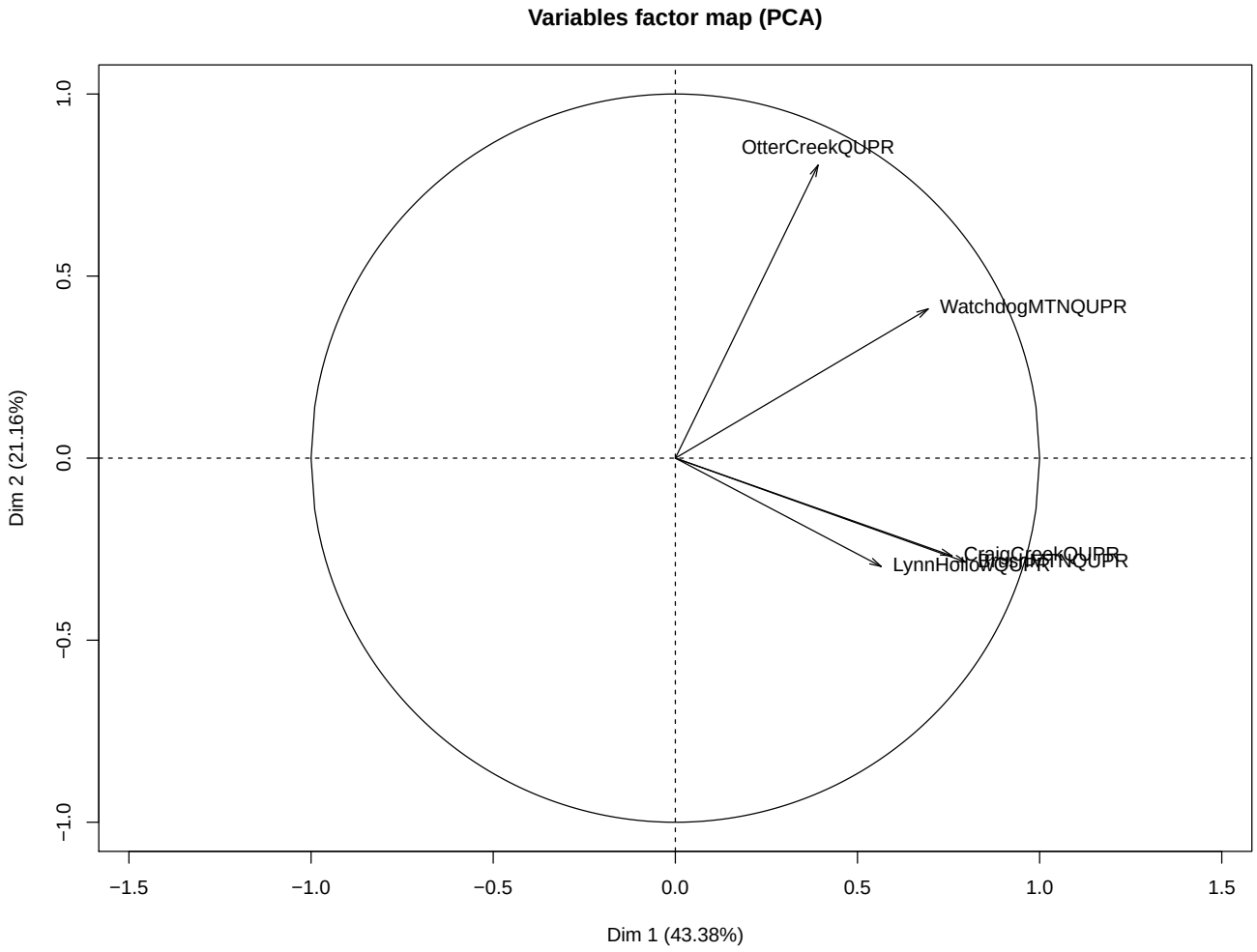
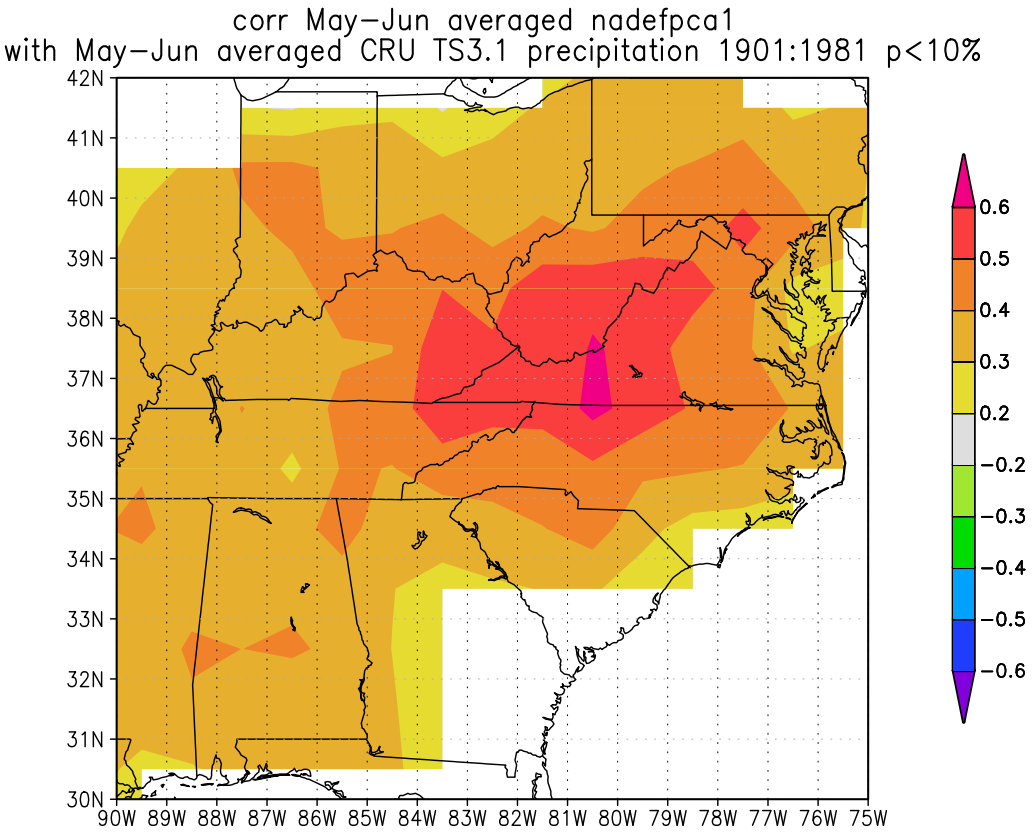
Chestnut Oak climate reconstruction
March 2012

1 Data

PCA percent variation explained by first three components: $0.43515425, 0.24049312, 0.17693894$.





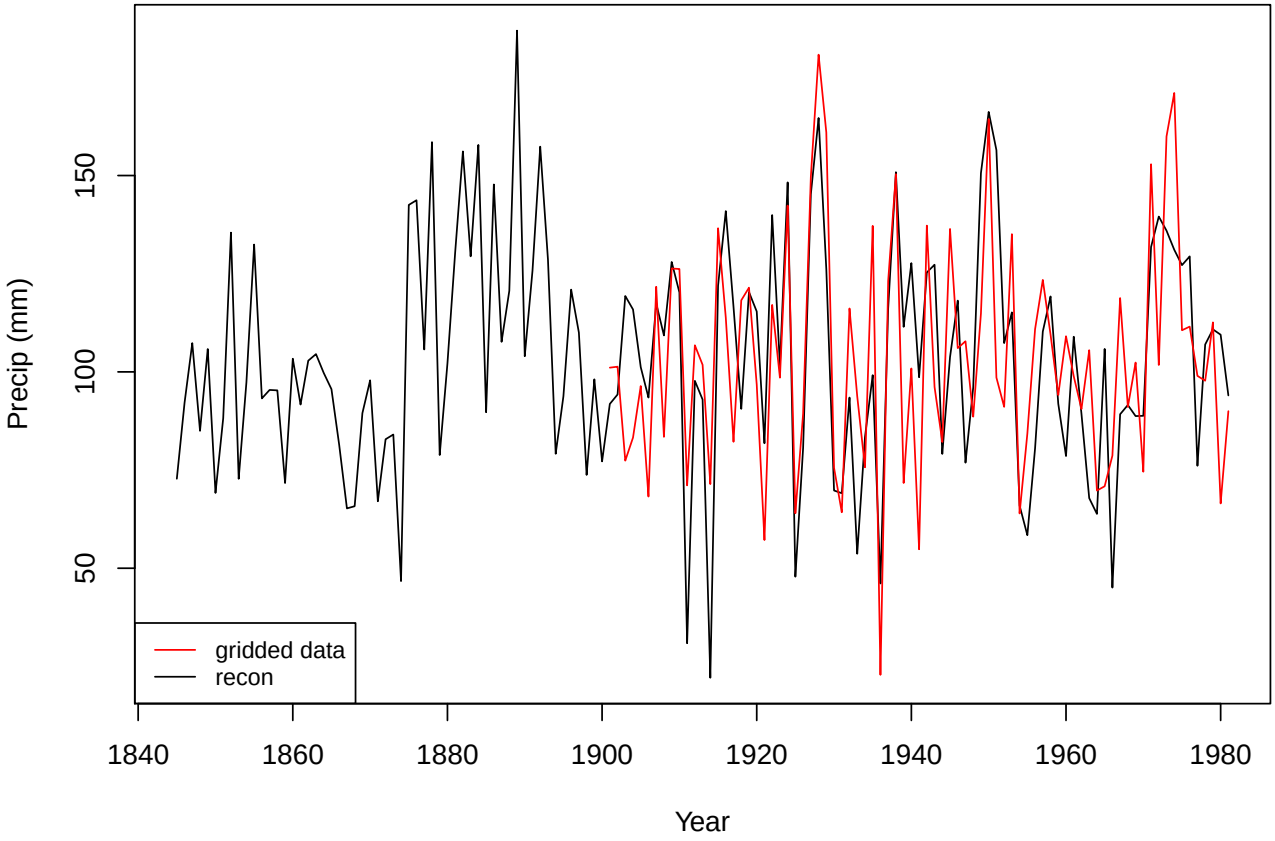
$$MSE(\hat{y}) = \sum_{i=1}^{N} (y_i - \hat{y}_i)^2$$

$$RE = 1 - \frac{MSE(\hat{y})}{\sum_{i=1}^{N} (y_i - \bar{y}_c)^2}$$

$$CE = 1 - \frac{MSE(\hat{y})}{\sum_{i=1}^{N} (y_i - \bar{y}_v)^2},$$

where

- N number of years in the verification period;
- y_i measured precip in year i;
- $\bar{y}$ mean of measured precip over calibration or verification years (indicated by subscript);
- $\hat{y}_i$ estimated precip in year i;


Precip (mm)
50
100
150
1840
1860
1880
1900
1920
1940
1960
1980
Year
gridded data
recon