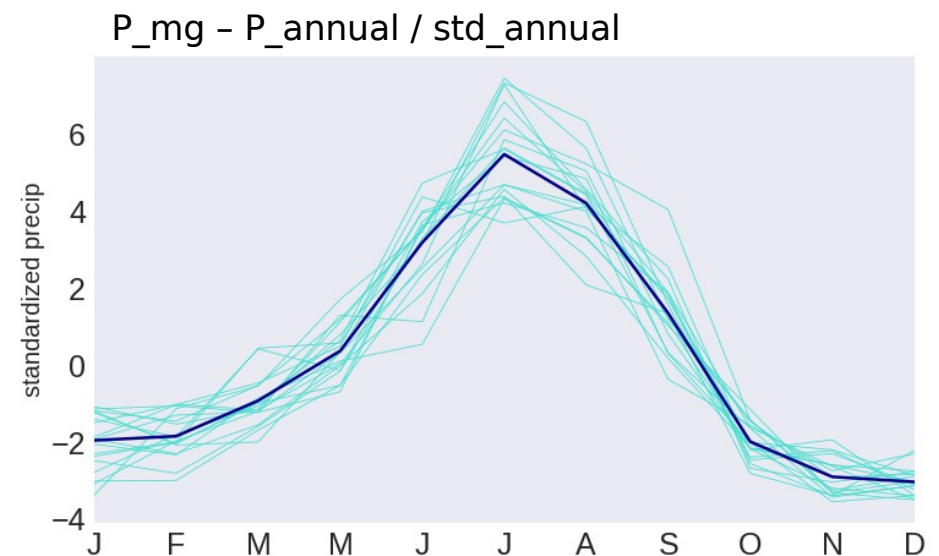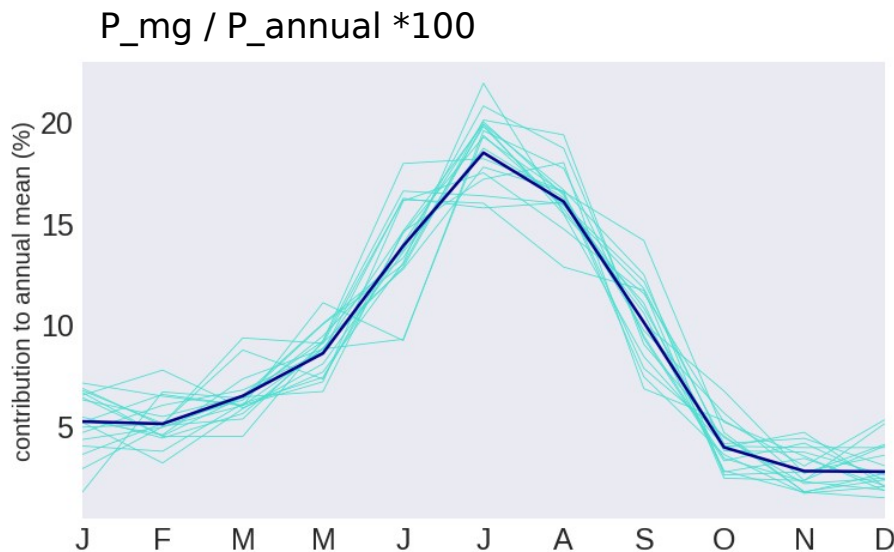# Cluster analysis based on GPM V06
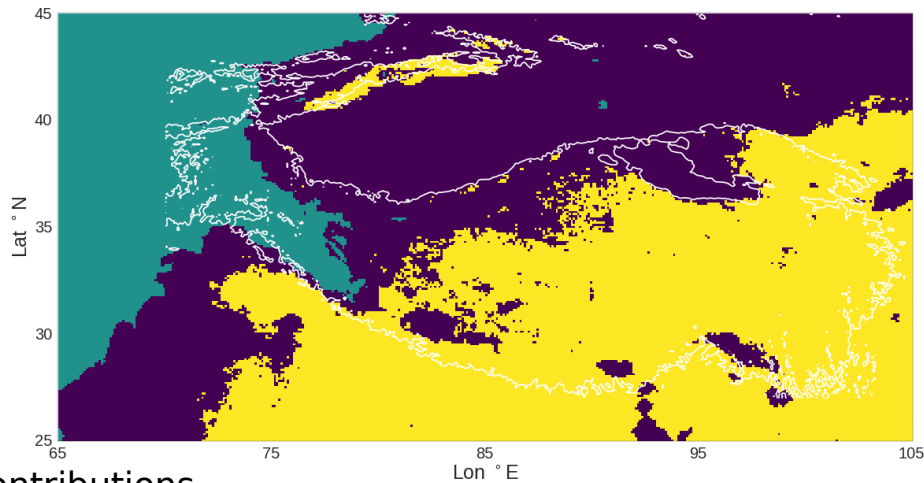
- **K-means clustering with 3 centroids**
- **GPM V06: 2000 – 2019**
- **Domain: 25 – 45N, 60 – 105E**

- **Training feature: normalized seasonal cycle**

P_mg / P_annual *100

P_mg – P_annual / std_annual

Figures show seasonal cycles averaged over domain for all years and each individual year
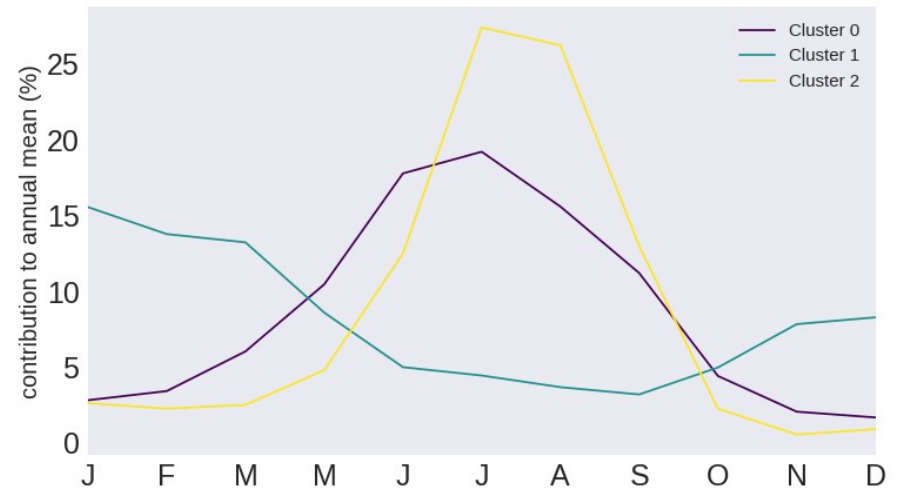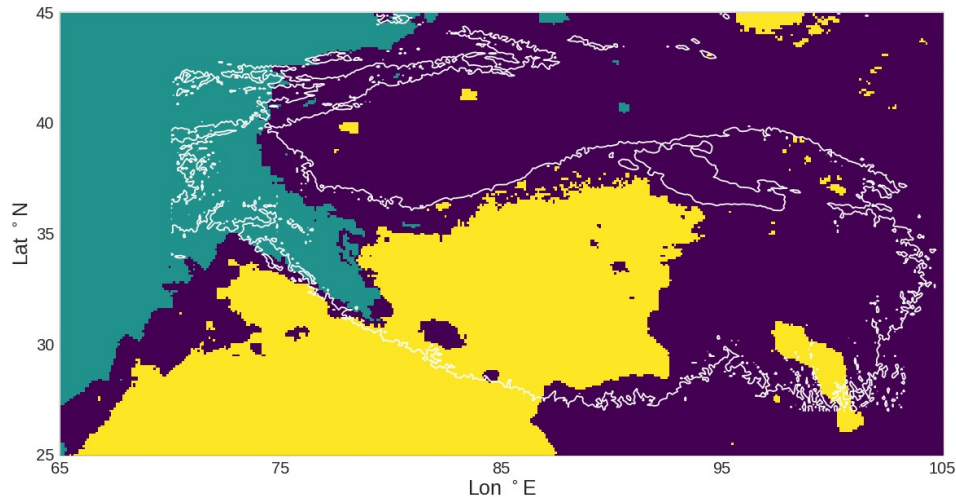
1

Results for 3 cluster centers

Standardized

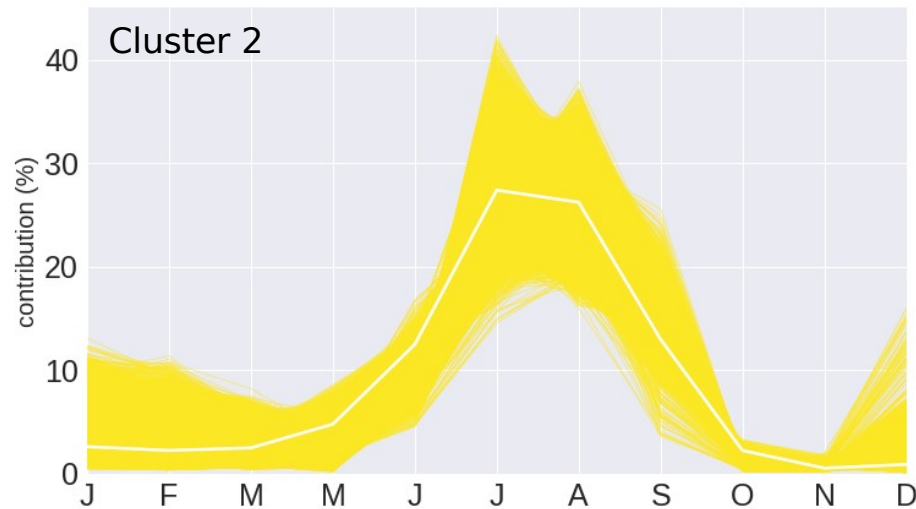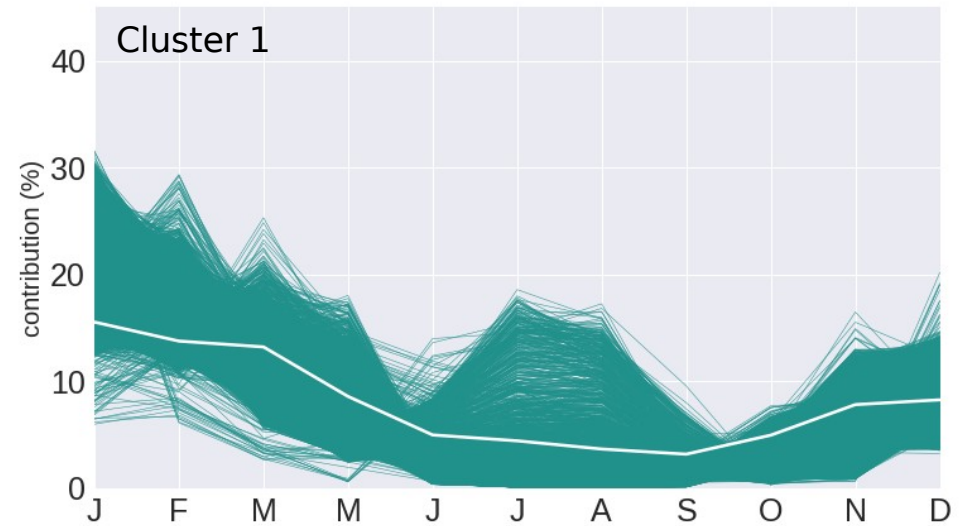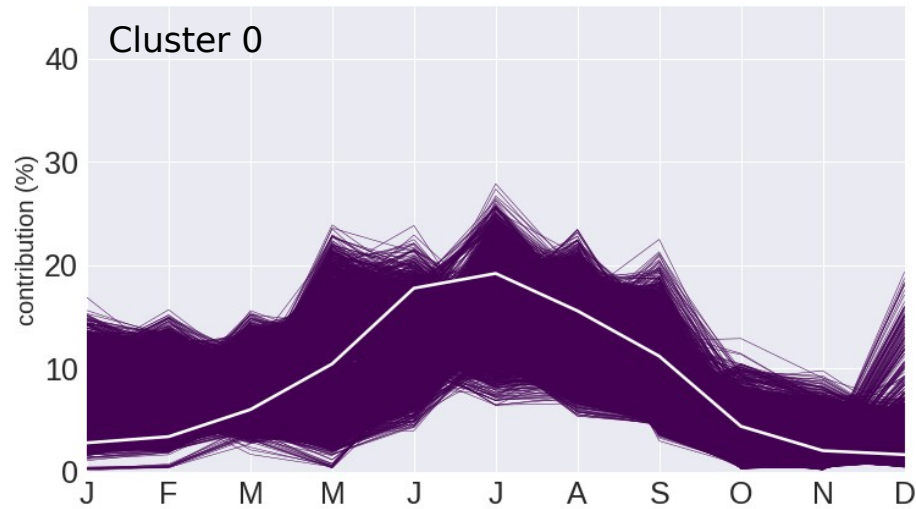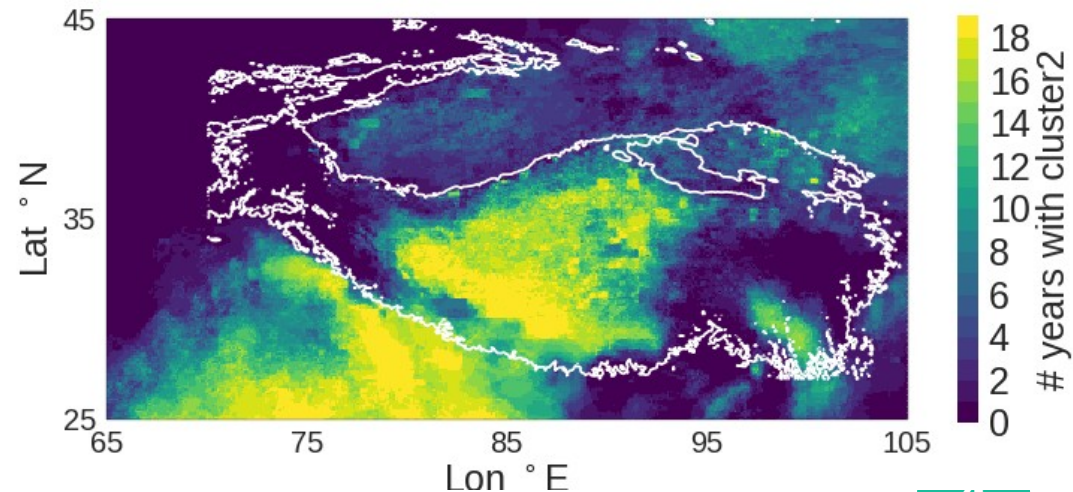Cluster 0: 33167, Cluster 1:32810, Cluster 3: 14624
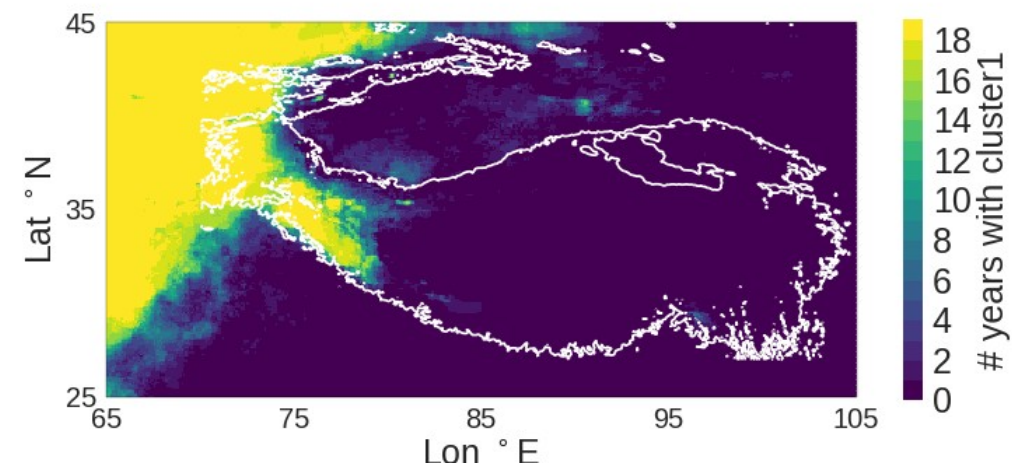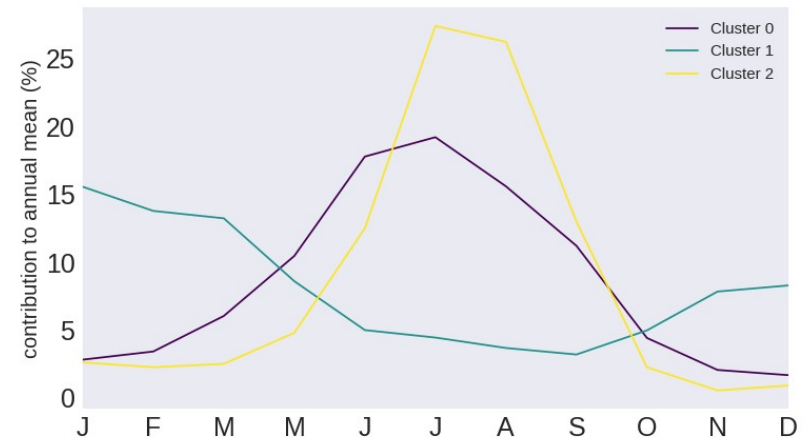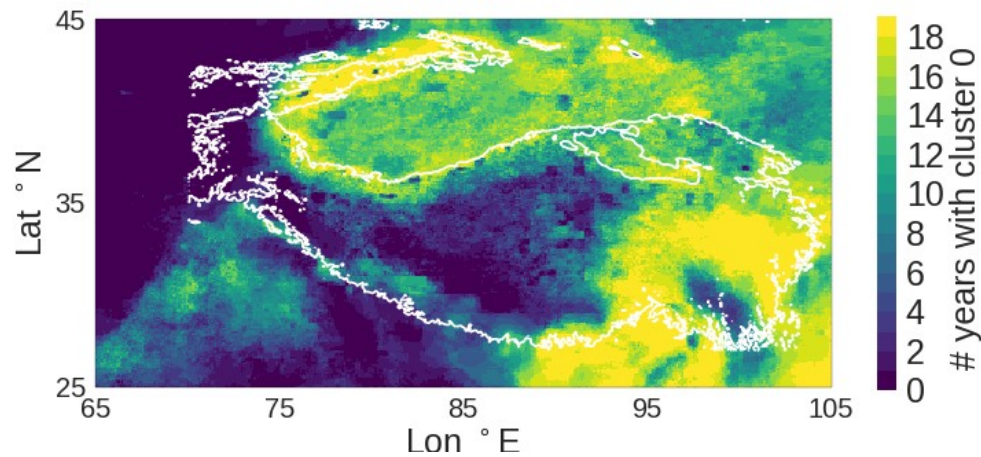

Contributions

Cluster 0: 43694, Cluster 1: 15597, Cluster 3: 21310

Characteristics of the 3 centroids

Prediction of each year

What is the closest cluster center of the seasonal curve in each year?

Prediction of each year

10-days pentad averages

- **Seasonal curve with 36 values → cluster analysis**
- **10- days average precip to identify evolution of monsoon**
-

Seasonal EOF