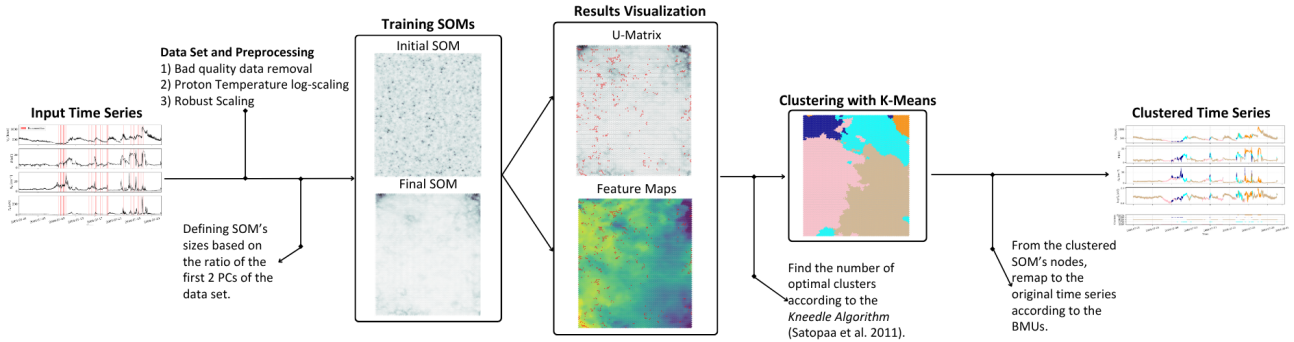
Input Time Series
Data Set and Preprocessing
1) Bad quality data removal
2) Proton Temperature log-scaling
3) Robust Scaling
Defining SOM's sizes based on the ratio of the first 2 PCs of the data set.
Training SOMs
Initial SOM
Final SOM
Results Visualization
U-Matrix
Feature Maps
Clustering with K-Means
Find the number of optimal clusters according to the *Kneedle Algorithm* (Satopaa et al. 2011).
Clustered Time Series
From the clustered SOM's nodes, remap to the original time series according to the BMUs.