Week 6
Presentation

Steve Mussmann & Alla Petrakova
DivCluST

-Full Results on all datasets with meaningful time
Hurricane
Trucks
Buffalo
Starkey (Deer & Elk)
Vector Field K-means

- Iterative Algorithm
- Initialize k-partition of trajectories
- Repeat:
  - Use trajectory directions from each partition to make k vector fields
  - Form k-partition of trajectories by assigning each to a vector field
Hurricane
Trucks
Intersection
Hawks
Buffalo
Deer
Elk
T-pattern Miner

- Use trajectory density to form rectangular regions of different sizes
- Encode trajectories as sequences of regions
- Find frequent subsequences to be motion patterns
Hurricanes
Trucks
Intersection
Buffalo
Hurricane Dataset Ground Truth & Test Results
June TRACLUS
June DTW+Agglomerative Average

[Map of the region with arrows indicating likely, more likely, and most likely tracks.]

[Graphs showing various data points and tracks with different colors representing different likelihood levels.]
June - DTW+Agglomerative Complete
June - MP
July TRACLUS
July DTW+Agglomerative Average
July DTW+Agglomerative Complete
July MP
August TRACLUS
August DTW+Agglomerative Average
August DTW+Agglomerative Complete
August MP
September TRACCLUS
September DTW+Agglomerative Average
September DTW+Agglomerative Complete
September MP
October TRACLUS
October DTW+Agglomerative Average
October DTW+Agglomerative Complete
October MP
November DTW+Agglomerative Average
November DTW+Agglomerative Complete
November MP