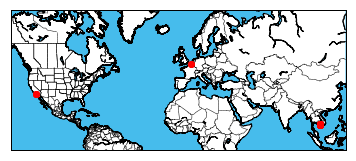
Data Visualization:

Clearly there are three different areas:

We can cluster the data before running optimization



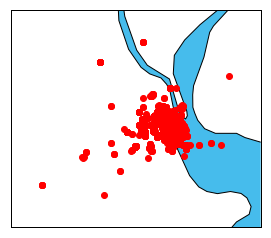
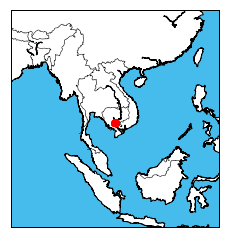
Distribution of points:

0 1598

1. 3
2. 2

Cluster 0

Number of locations: 1598



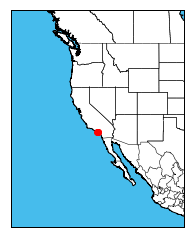
Cluster 1

Number of locations: 3

1187 33.778968 -118.189823

1188 33.778968 -118.189823

1563 33.778722 -118.198508



Cluster 2

Number of locations: 2

897 50.690189 3.161406

898 50.690189 3.161406



Where to make amends:

Line 63 only integer to make subset

Line 39 warning copy of a slice of the data

Assumptions:

Actual distance is the same as the (Route might be different)

Method to speed up the calculation

Different method of mutation

Increased population

The size of the population as it influences whether GA can find good solutions and the time it takes to reach them

Scaling:

We can use parallel genetic algorithm that consists of multiple populations that evolve separately most of the time and exchange individuals occasionally

Crossover and Mutation How I am using that?

Can include time taken?