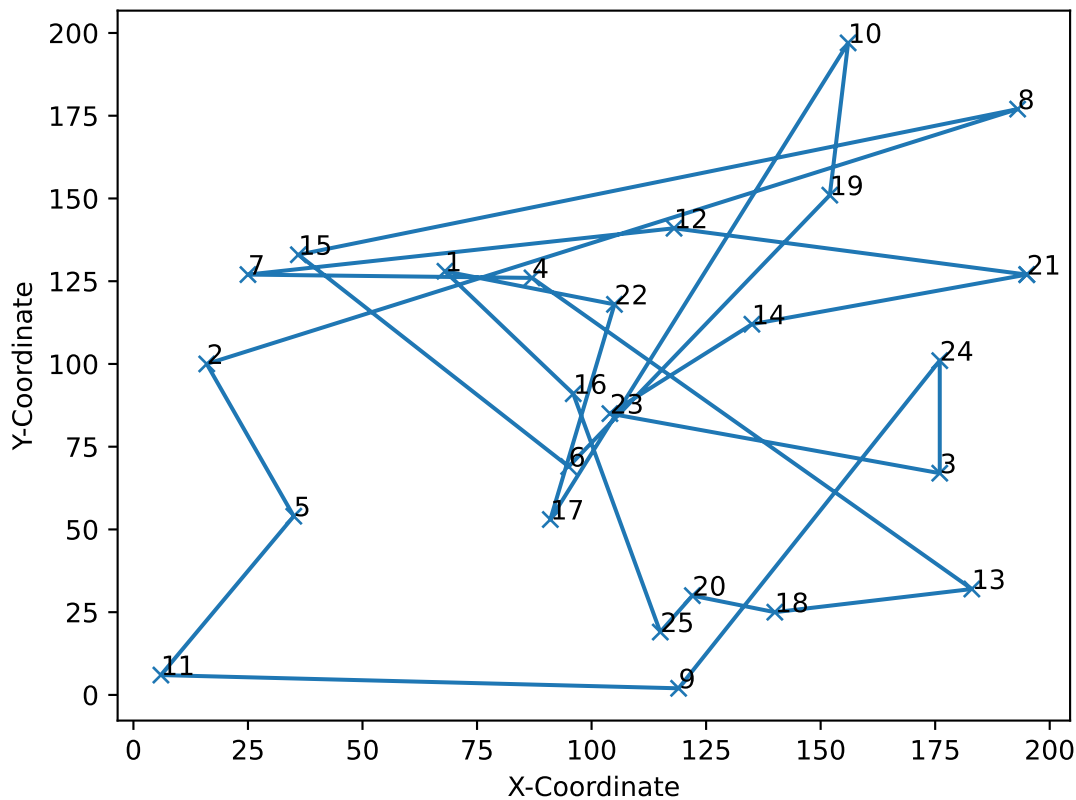
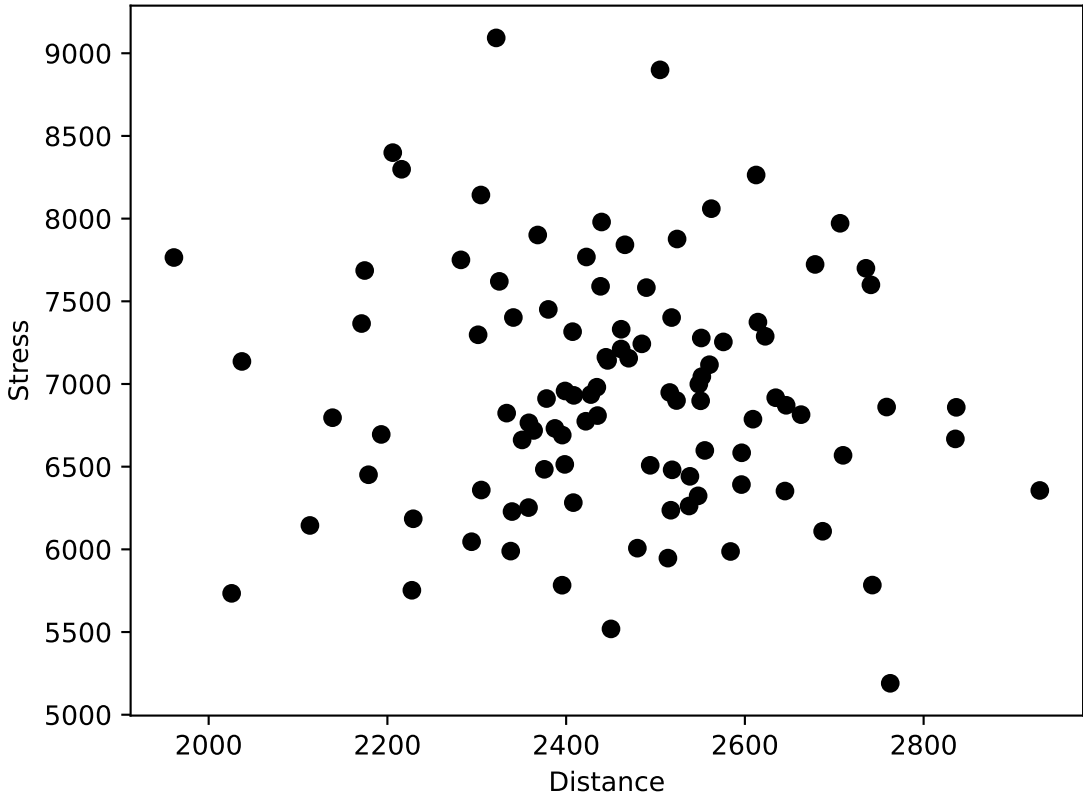


Objective: 1 | popSize: 100 | eliteSize: 20 | mutationRate: 0.01 | generations: 1000

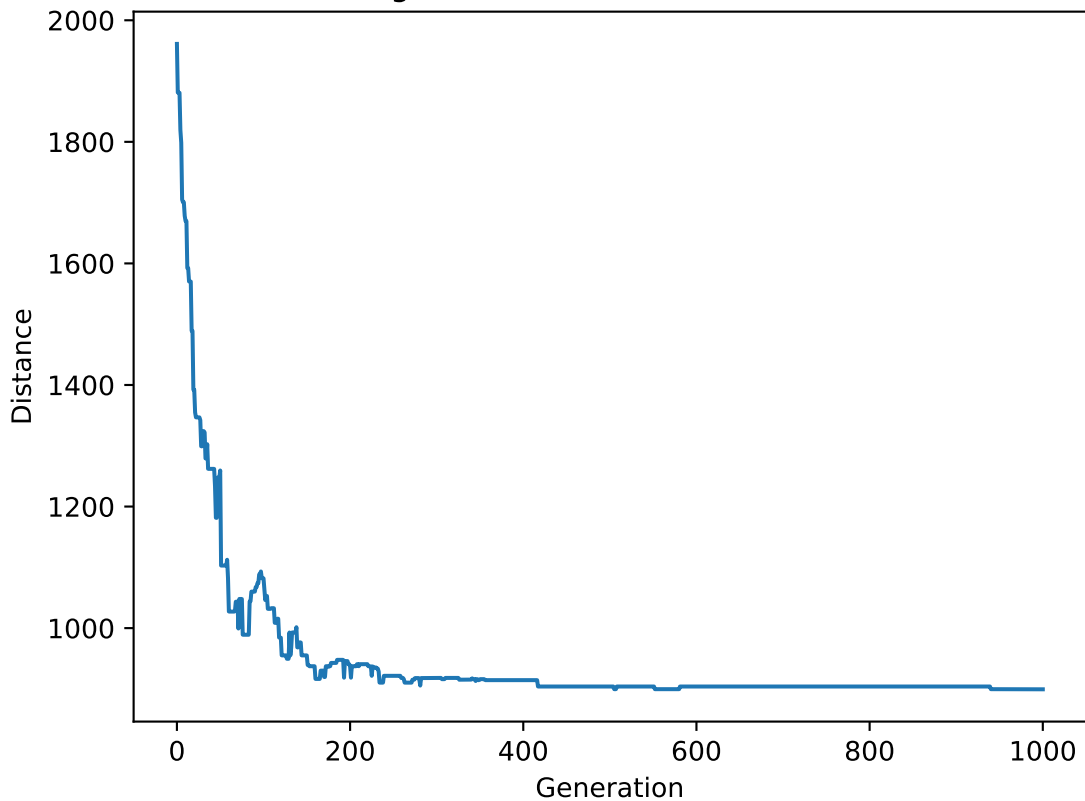
Best initial route



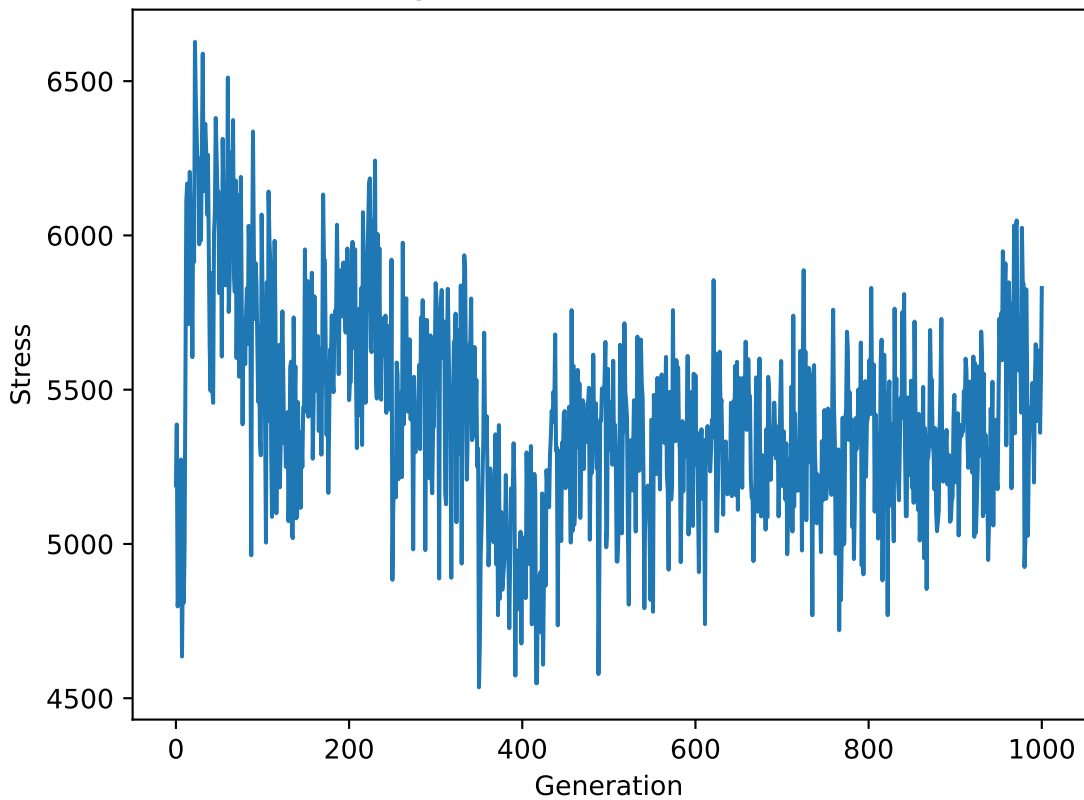
A scatter plot showing the relationship between 'Distance' (x-axis) and 'Number of species' (y-axis). The x-axis ranges from 2000 to 2800 with major ticks every 200 units. The y-axis ranges from 0 to 100 with major ticks every 10 units. The data points are represented by solid black circles. There is a general positive trend, with a notable outlier at approximately (2750, 95). The density of points is higher between 2400 and 2600 on the x-axis.



Progress of Distance Minimization

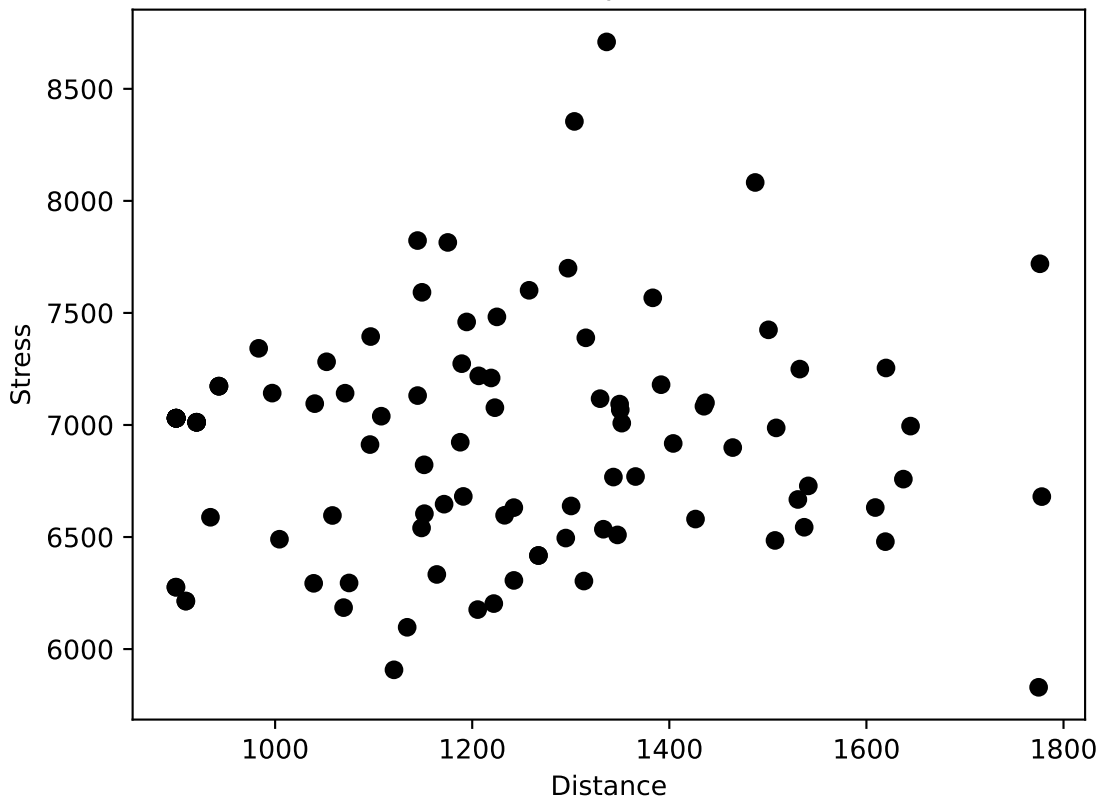


Progress of Stress Minimization



Initial distance : 1961.1219340081689
Initial stress: 7764.8
Initial objective: 1961.1219340081686
Final objective: 899.3342467245592
Final distance : 899.3342467245593
Final stress: 6276.2

Final Population



[3, 24, 21, 8, 10, 19, 12, 14, 16, 5, 11, 2, 7, 15, 1, 4, 22, 23, 6, 17, 20, 25, 9, 18, 13]

Best final route

