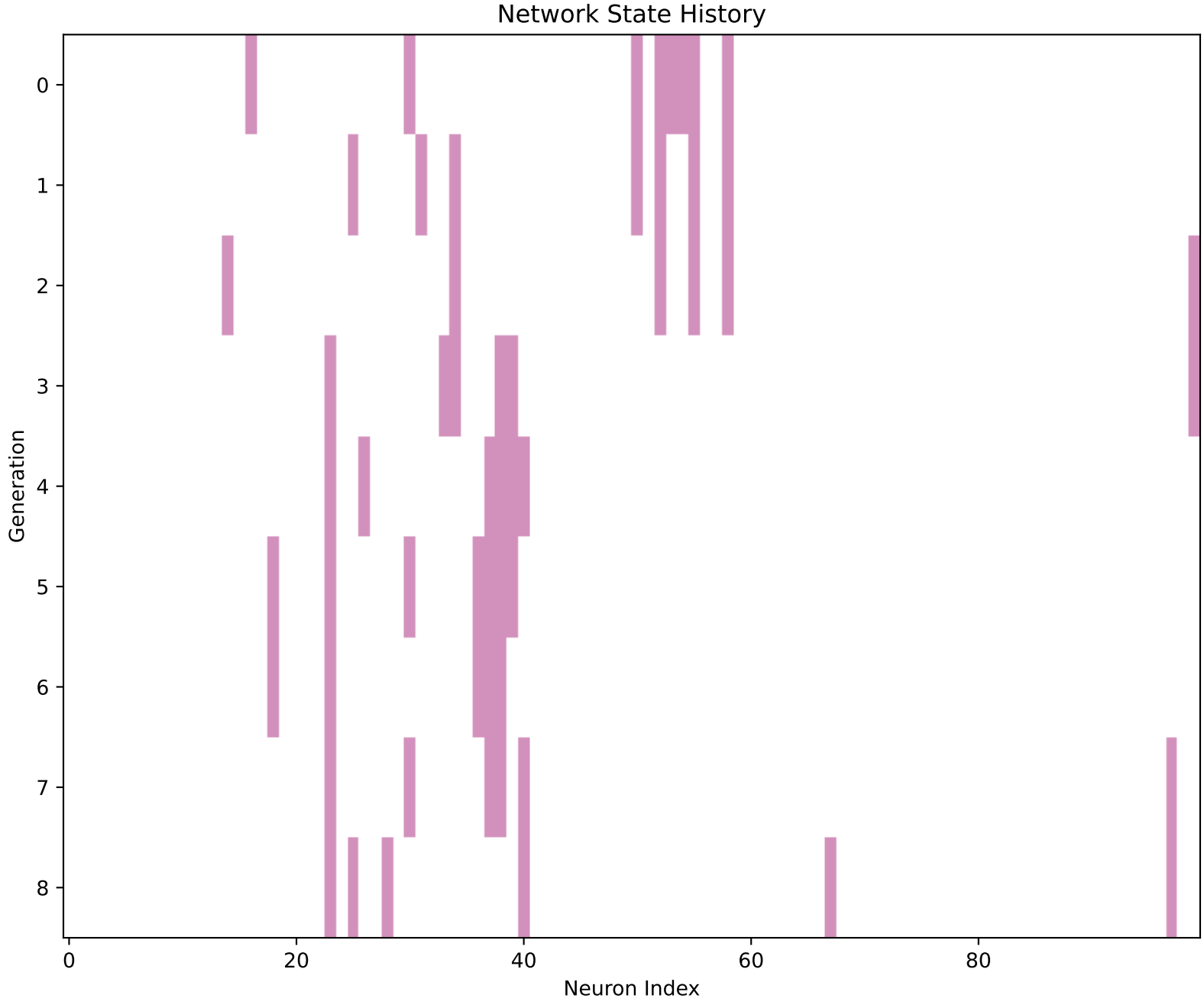
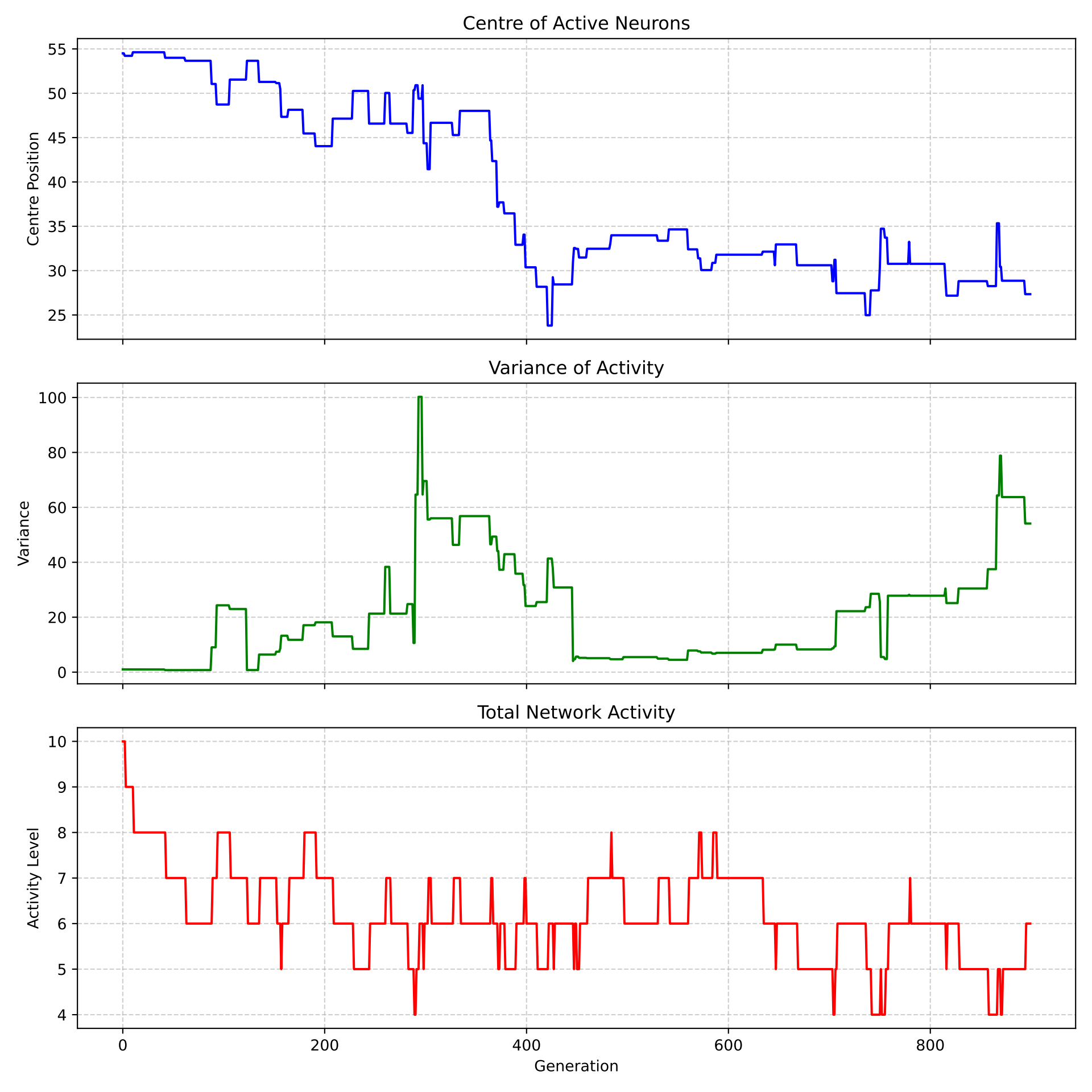
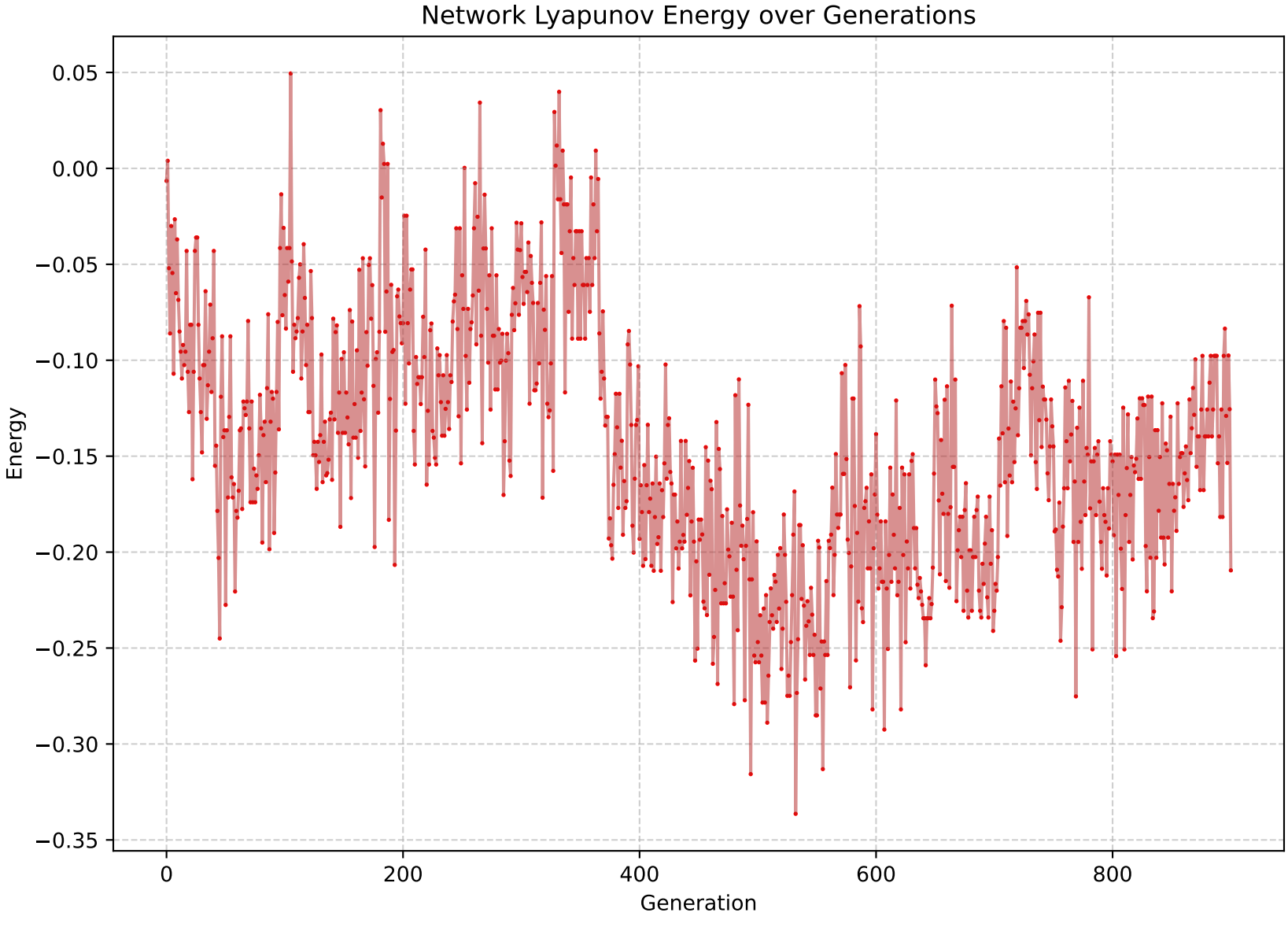
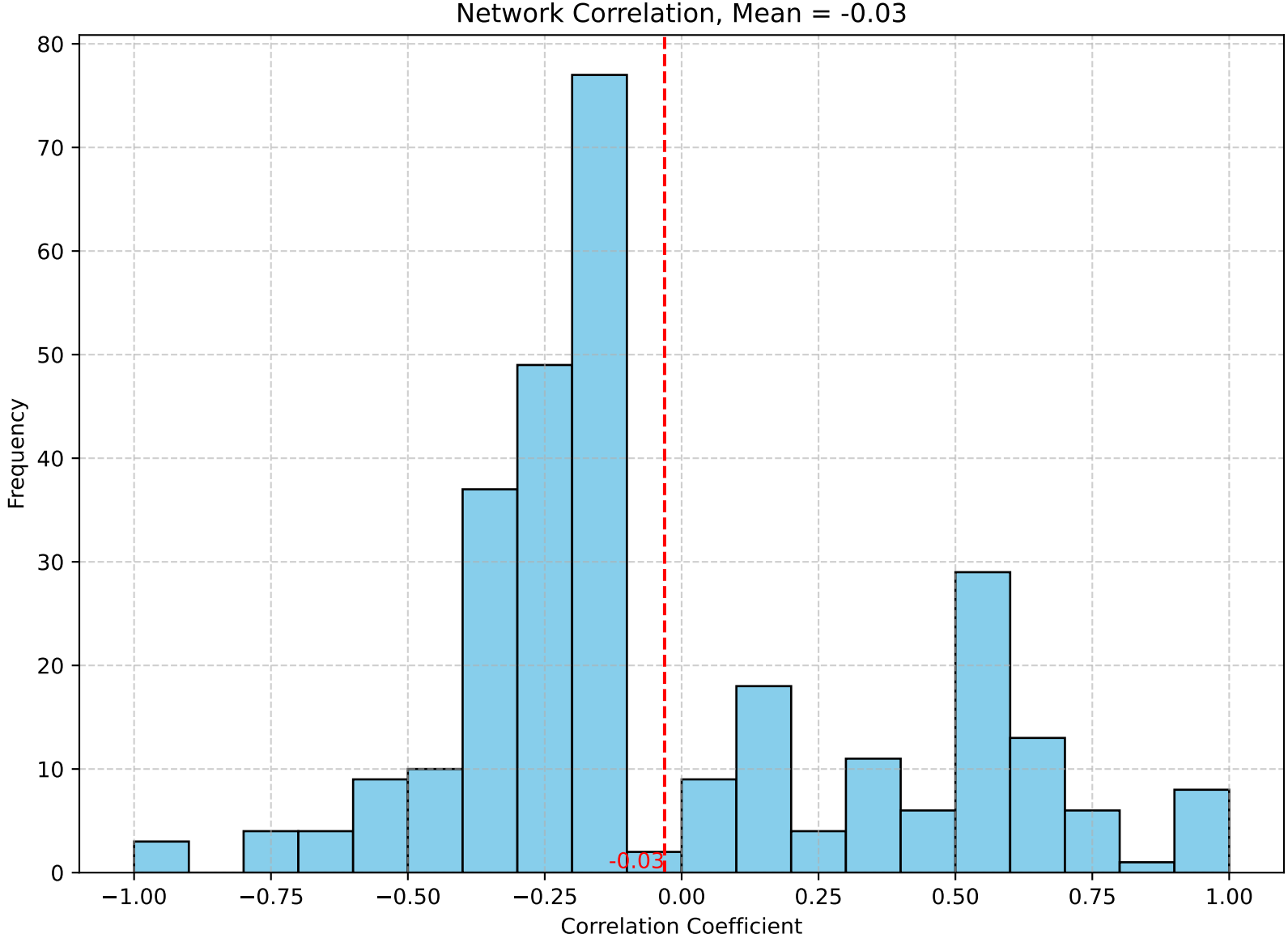

Network State History
Generation
Neuron Index
0
1
2
3
4
5
6
7
8
0
20
40
60
80


Centre of Active Neurons
Centre Position
55
50
45
40
35
30
25
Variance of Activity
Variance
100
80
60
40
20
0
Total Network Activity
Activity Level
10
9
8
7
6
5
4
0
200
400
600
800
Generation


Network Lyapunov Energy over Generations
Energy
Generation
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
−0.35
0
200
400
600
800


Network Correlation, Mean = -0.03
Frequency
Correlation Coefficient
-0.03
80
70
60
50
40
30
20
10
0
−1.00
−0.75
−0.50
−0.25
0.00
0.25
0.50
0.75
1.00

Network Parameters:

Number of Neurons: 100
Noise: 0.01
Field Width: 0.05
Synaptic Failure: 0.3
Spontaneous Release: 0.05
Constriction: 1.0
Fraction Active: 0.1