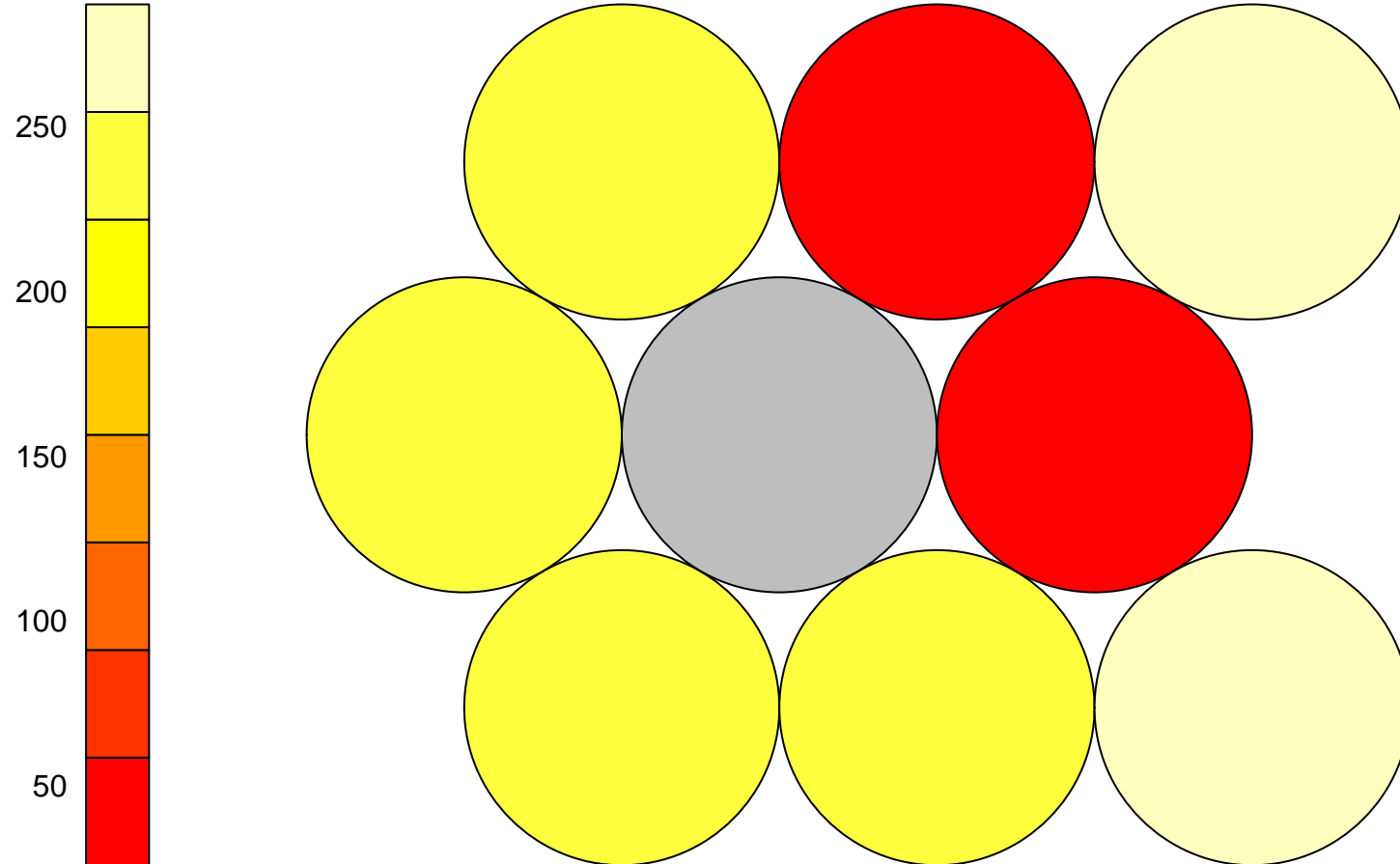
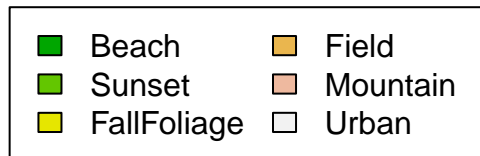
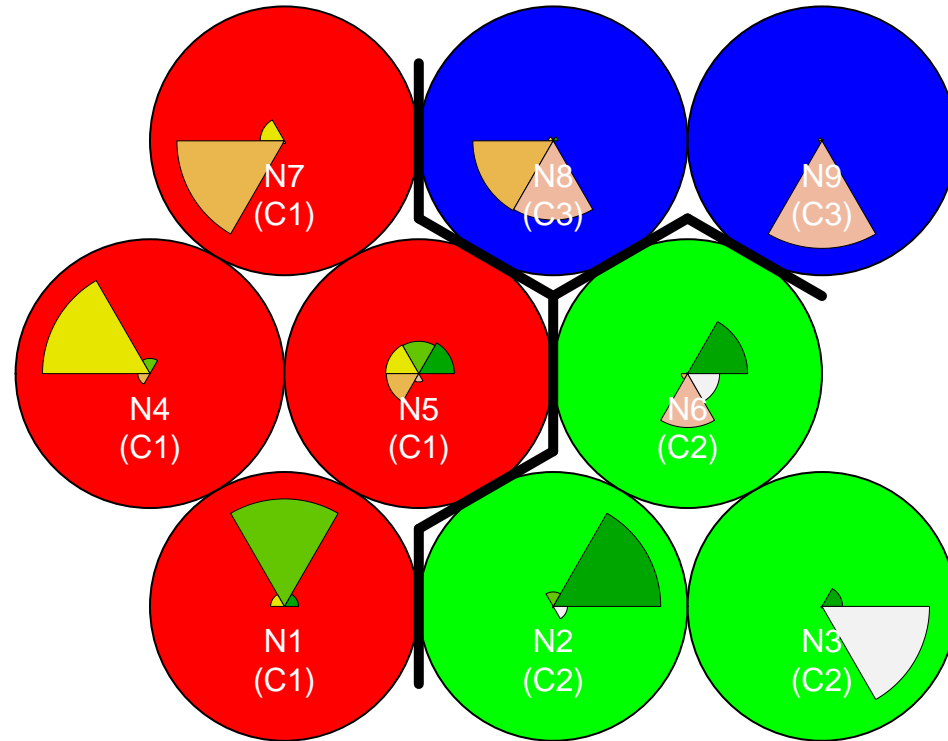


# SOM – Clusters (k = 3 )



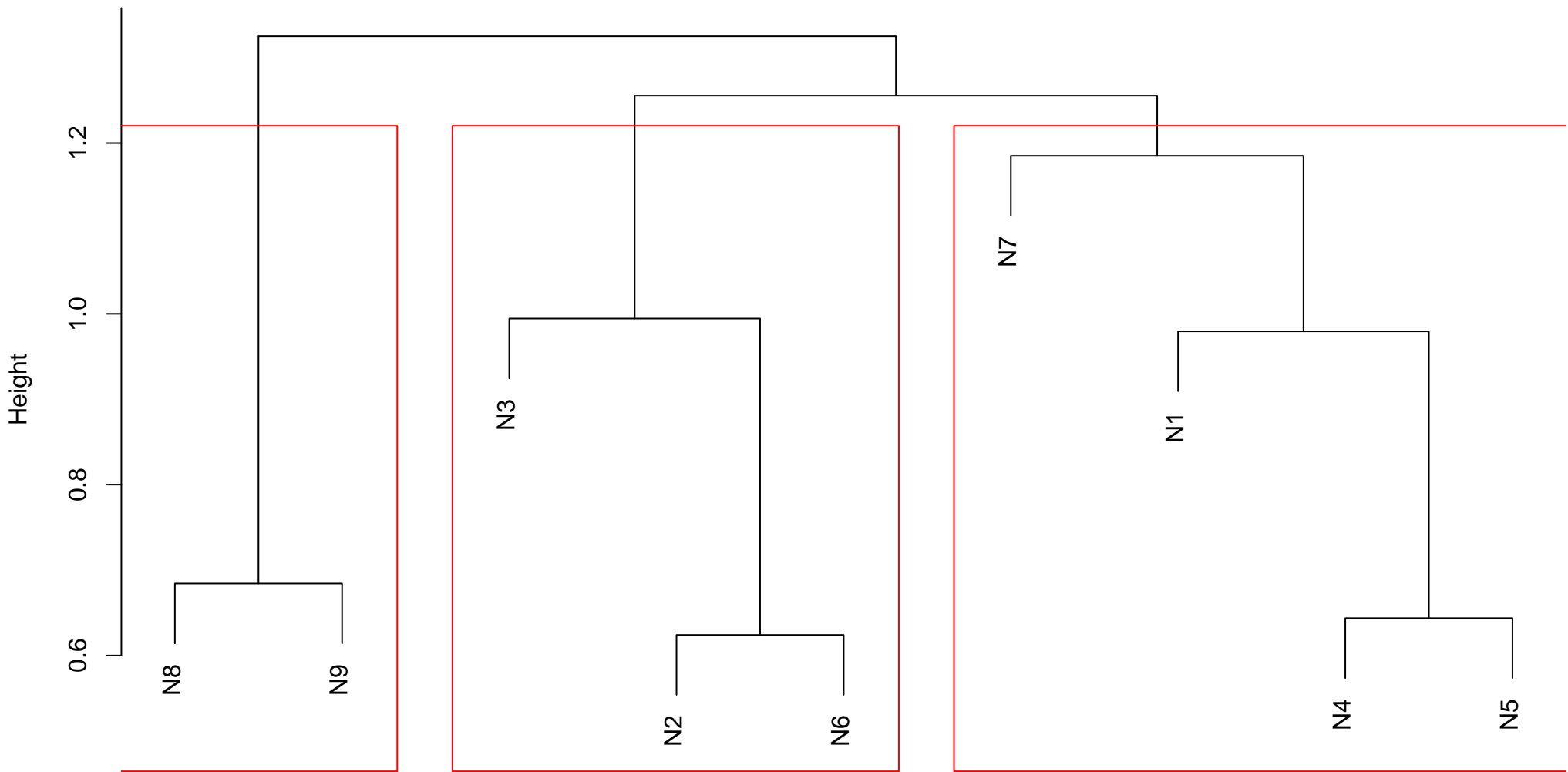
## SOM – Clusters (k = 3 )



|   | neuron | Y.Beach | Y.Sunset | Y.FallFoliage | Y.Field | Y.Mountain | Y.Urban |
|---|--------|---------|----------|---------------|---------|------------|---------|
| 1 | 1      | 0       | 242      | 0             | 0       | 0          | 0       |
| 2 | 2      | 246     | 0        | 0             | 0       | 0          | 0       |
| 3 | 3      | 13      | 0        | 0             | 4       | 0          | 287     |
| 4 | 4      | 0       | 0        | 240           | 0       | 0          | 0       |
| 5 | 6      | 26      | 0        | 0             | 0       | 26         | 0       |
| 6 | 7      | 1       | 0        | 15            | 234     | 0          | 0       |
| 7 | 8      | 0       | 0        | 1             | 51      | 51         | 0       |
| 8 | 9      | 0       | 0        | 8             | 0       | 278        | 0       |

Grid: gaussian\_hexagonal | rlen: 500 | radius: 7 | alpha1: 0.05 | alpha2: 0.001 | QE Teste: 0.0816436144583544

Cluster Dendrogram



dist(codebook.matrix.best.result)  
hclust (\*, "complete")

|   | cluster | Y.Beach | Y.Sunset | Y.FallFoliage | Y.Field | Y.Mountain | Y.Urban |
|---|---------|---------|----------|---------------|---------|------------|---------|
| 1 | 1       | 1       | 242      | 255           | 234     | 0          | 0       |
| 2 | 2       | 285     | 0        | 0             | 4       | 26         | 287     |
| 3 | 3       | 0       | 0        | 9             | 51      | 329        | 0       |

|   | cluster | combinacao | frequencia |
|---|---------|------------|------------|
| 5 | 1       | 100100     | 1          |
| 3 | 1       | 001100     | 15         |
| 1 | 1       | 000100     | 218        |
| 2 | 1       | 001000     | 240        |
| 4 | 1       | 010000     | 242        |

|   | cluster | combinacao | frequencia |
|---|---------|------------|------------|
| 2 | 2       | 000101     | 4          |
| 4 | 2       | 100001     | 13         |
| 5 | 2       | 100010     | 26         |
| 3 | 2       | 100000     | 246        |
| 1 | 2       | 000001     | 270        |

|   | cluster | combinacao | frequencia |
|---|---------|------------|------------|
| 4 | 3       | 001110     | 1          |
| 3 | 3       | 001010     | 8          |
| 2 | 3       | 000110     | 50         |
| 1 | 3       | 000010     | 270        |