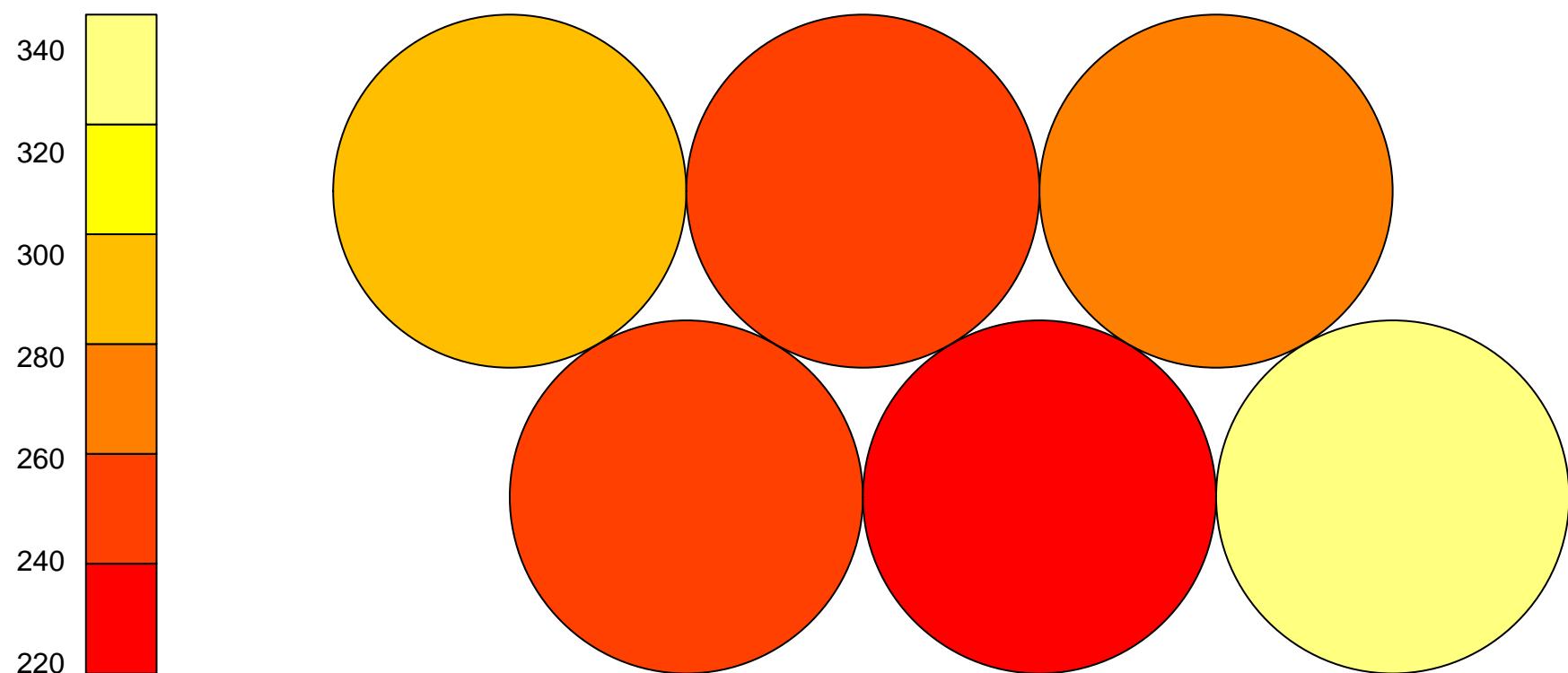
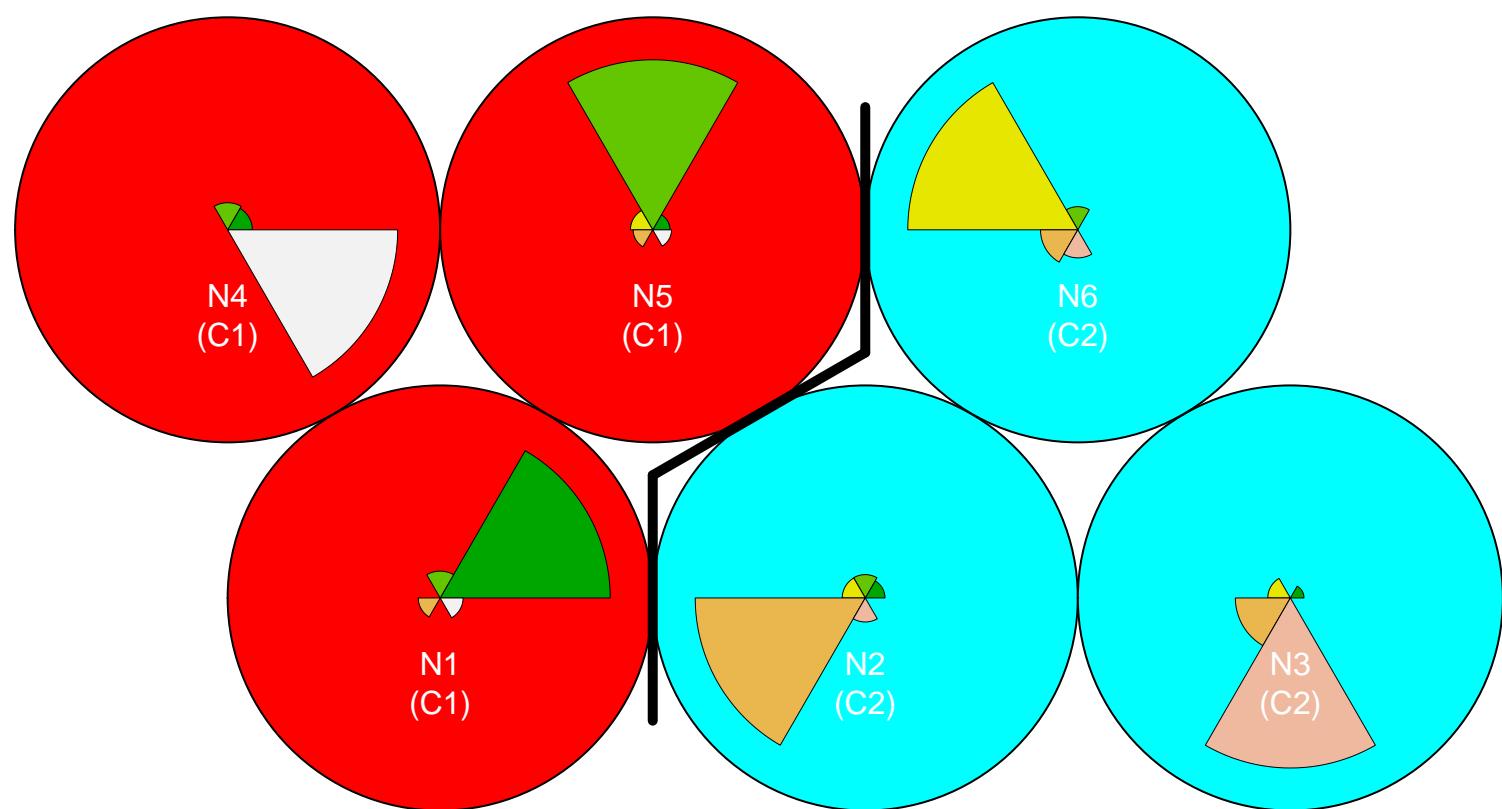


**SOM – Counts (k = 2 )**



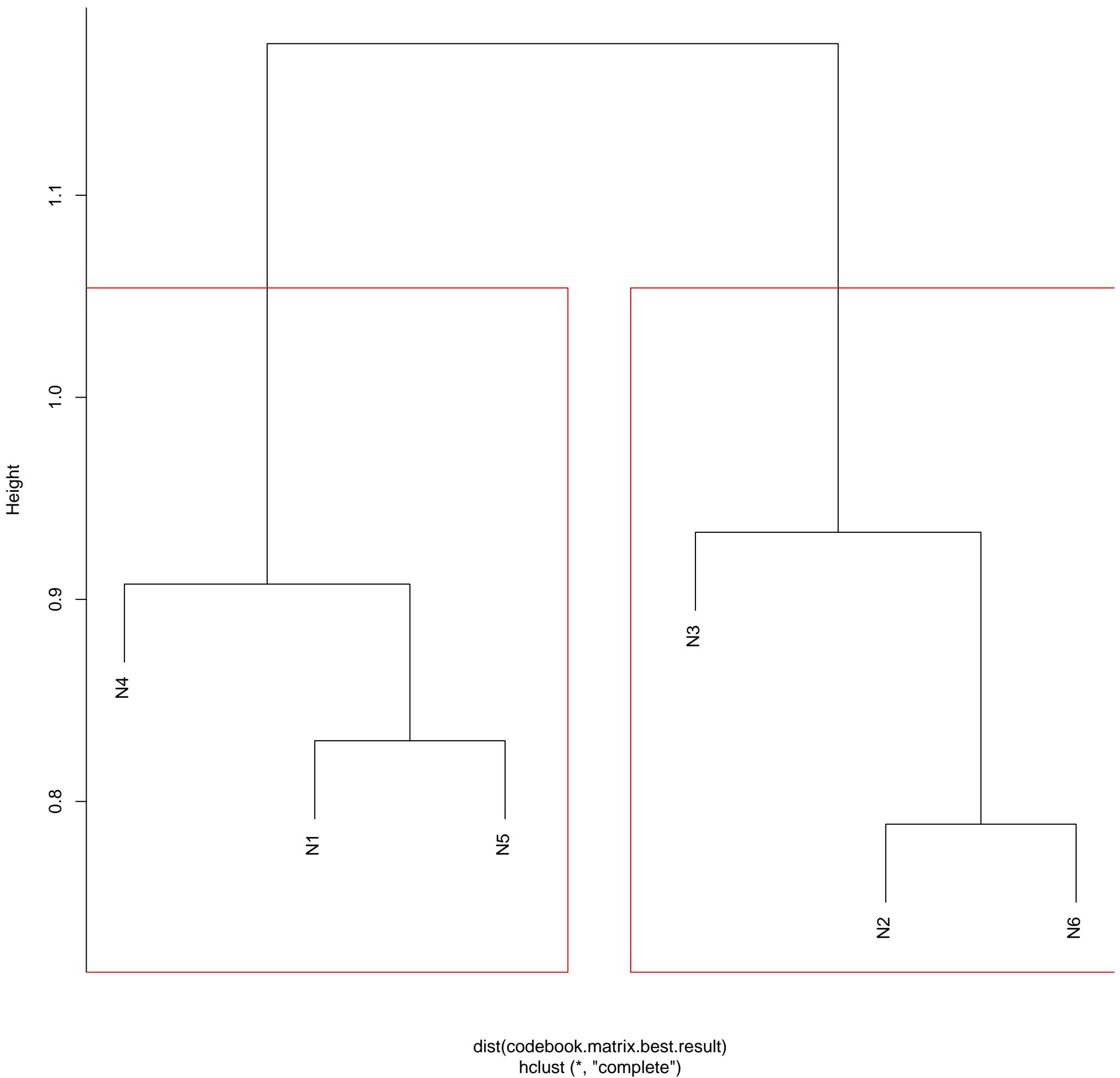
### SOM – Clusters (k = 2 )



| <b>neuron</b> | <b>Y.Beach</b> | <b>Y.Sunset</b> | <b>Y.FallFoliage</b> | <b>Y.Field</b> | <b>Y.Mountain</b> | <b>Y.Urban</b> |
|---------------|----------------|-----------------|----------------------|----------------|-------------------|----------------|
| 1             | 1              | 247             | 0                    | 0              | 1                 | 0              |
| 2             | 2              | 0               | 0                    | 0              | 218               | 0              |
| 3             | 3              | 26              | 0                    | 1              | 51                | 347            |
| 4             | 4              | 13              | 0                    | 0              | 4                 | 0              |
| 5             | 5              | 0               | 242                  | 0              | 0                 | 0              |
| 6             | 6              | 0               | 0                    | 263            | 15                | 8              |

Grid: gaussian\_hexagonal | rlen: 1500 | radius: 5 | alpha1: 0.05 | alpha2: 0.01 | QE Teste: 0.169504771096501

### Cluster Dendrogram



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

| <b>cluster</b> | <b>Y.Beach</b> | <b>Y.Sunset</b> | <b>Y.FallFoliage</b> | <b>Y.Field</b> | <b>Y.Mountain</b> | <b>Y.Urban</b> |
|----------------|----------------|-----------------|----------------------|----------------|-------------------|----------------|
| 1              | 1              | 260             | 242                  | 0              | 5                 | 0              |
| 2              | 2              | 26              | 0                    | 264            | 284               | 355            |

|   | <b>cluster</b> | <b>combinacao</b> | <b>frequencia</b> |
|---|----------------|-------------------|-------------------|
| 6 | 1              | 100100            | 1                 |
| 2 | 1              | 000101            | 4                 |
| 5 | 1              | 100001            | 13                |
| 3 | 1              | 010000            | 242               |
| 4 | 1              | 100000            | 246               |
| 1 | 1              | 000001            | 270               |

| <b>cluster</b> |   | <b>combinacao</b> | <b>frequencia</b> |
|----------------|---|-------------------|-------------------|
| 7              | 2 | 001110            | 1                 |
| 5              | 2 | 001010            | 8                 |
| 6              | 2 | 001100            | 15                |
| 8              | 2 | 100010            | 26                |
| 3              | 2 | 000110            | 50                |
| 2              | 2 | 000100            | 218               |
| 4              | 2 | 001000            | 240               |
| 1              | 2 | 000010            | 270               |