ANALYSIS OF STARS WITHIN 20 LIGHT YEARS OF EARTH

▼ Parsecs	▼ LightYears
1.3011	4.243615716
1.8275	5.9605008999999995
2.5453	8.301648668
2.9762	9.707054871999999
3.2179	10.495373924
3.2877	10.723030812
3.3731	11.001568036
3.4904	11.384149024
3.4947	11.398173731999998
3.522	11.487214319999998

OpenRefine converts Parsecs to Light Years
Multiply Parsecs by 3.26156

Add column based on column Parsecs

New column name   LightYears

On error   ● set to blank ○ store error ○ copy value from original column

Expression   Language General Refine Expression Language (GREL) ∨

```
value * 3.26156
```
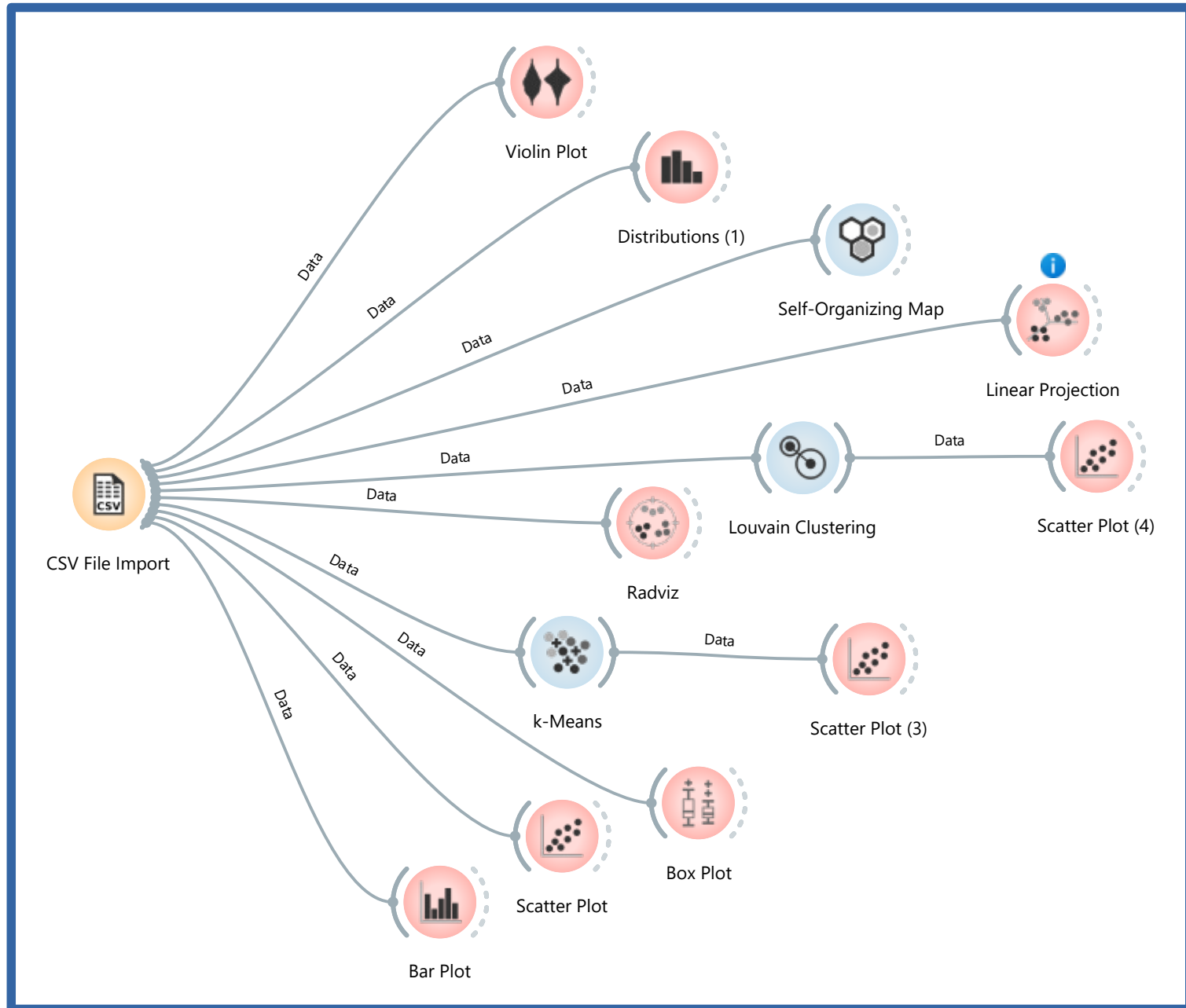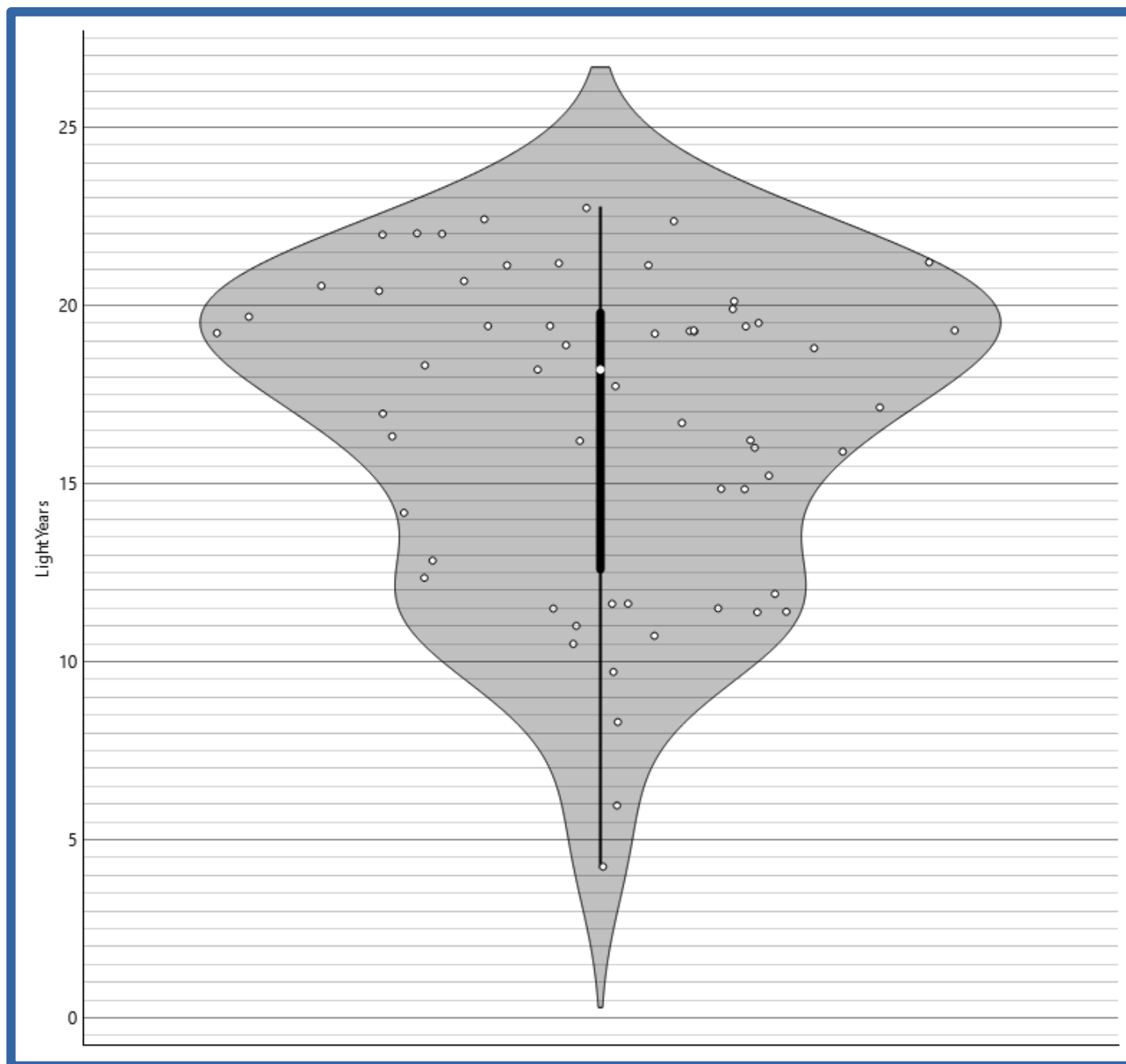No

Preview History Starred Help

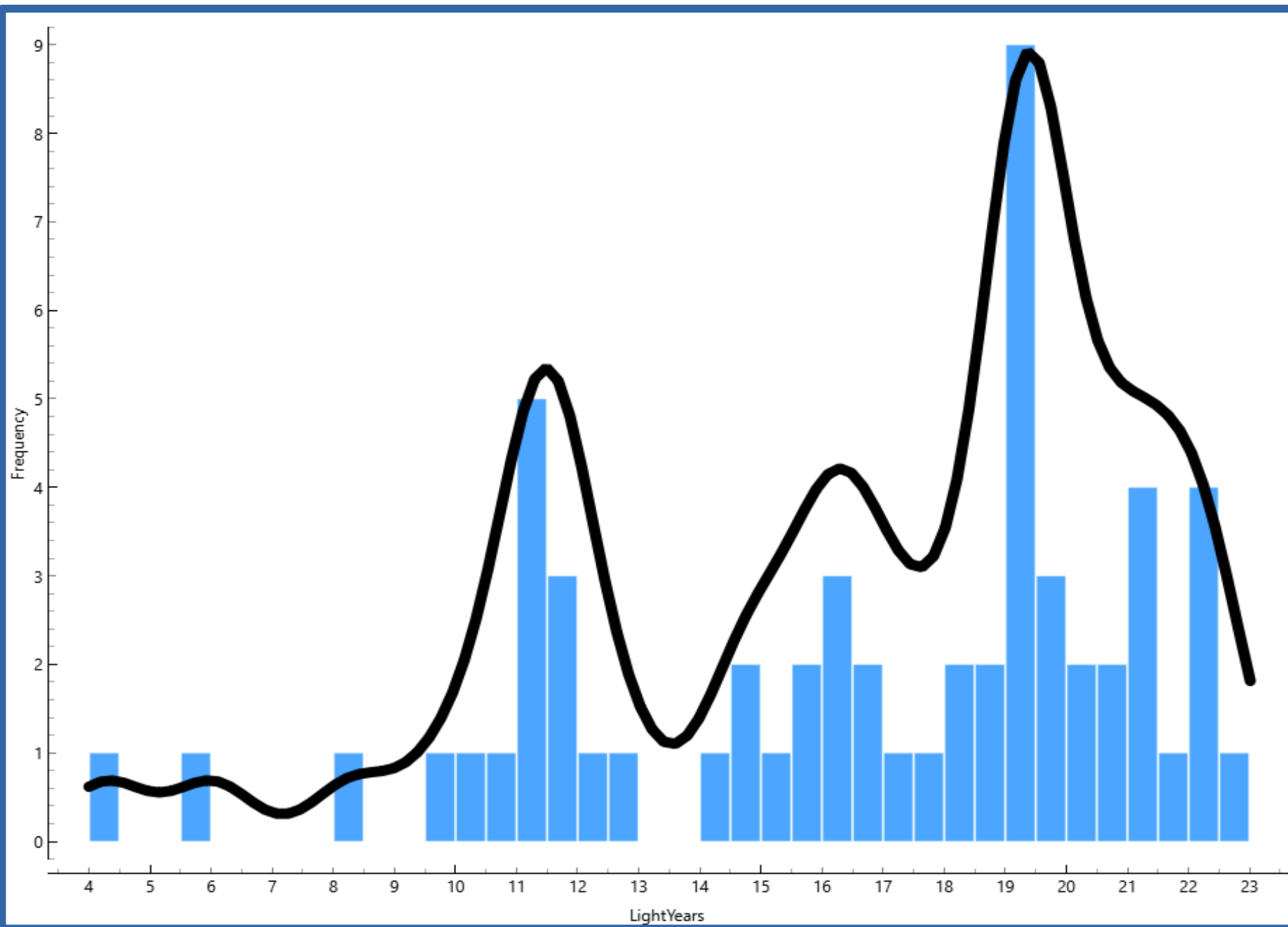| row	value	value * 3.26156
1.	1.3011	4.243615716
2.	1.8275	5.9605008999999995

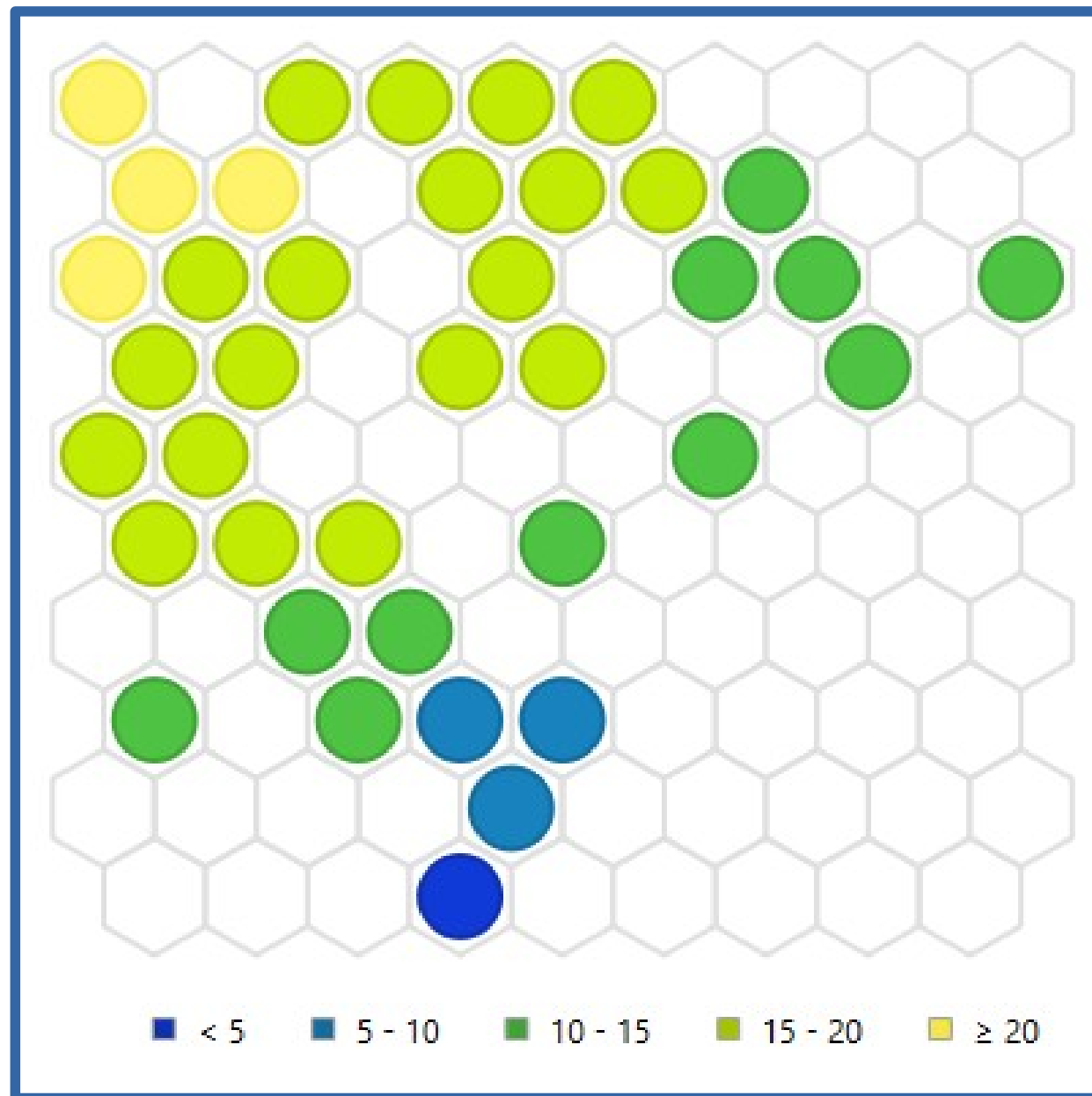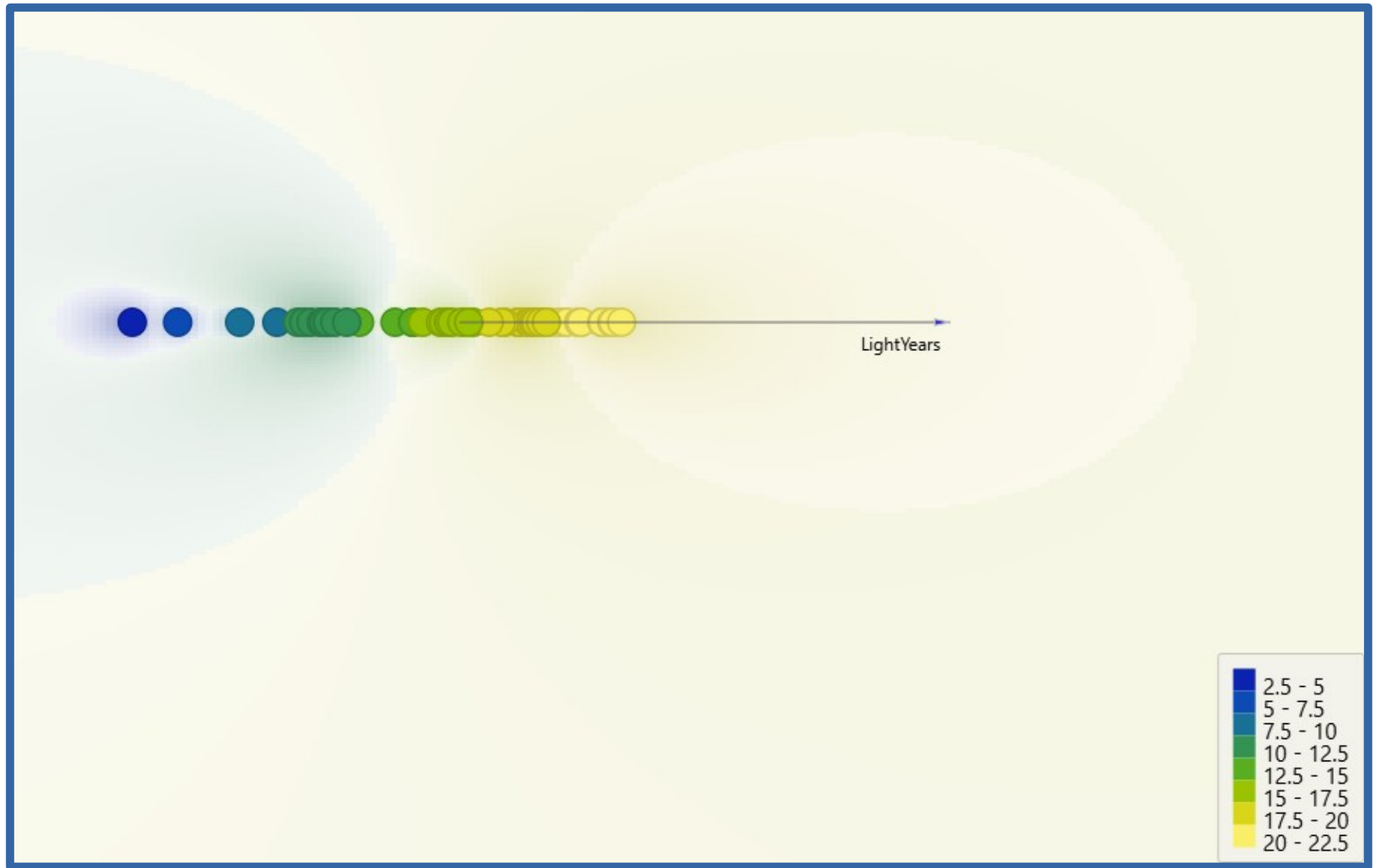# VISUALIZATION ANALYSIS USING ORANGE DATA MINING
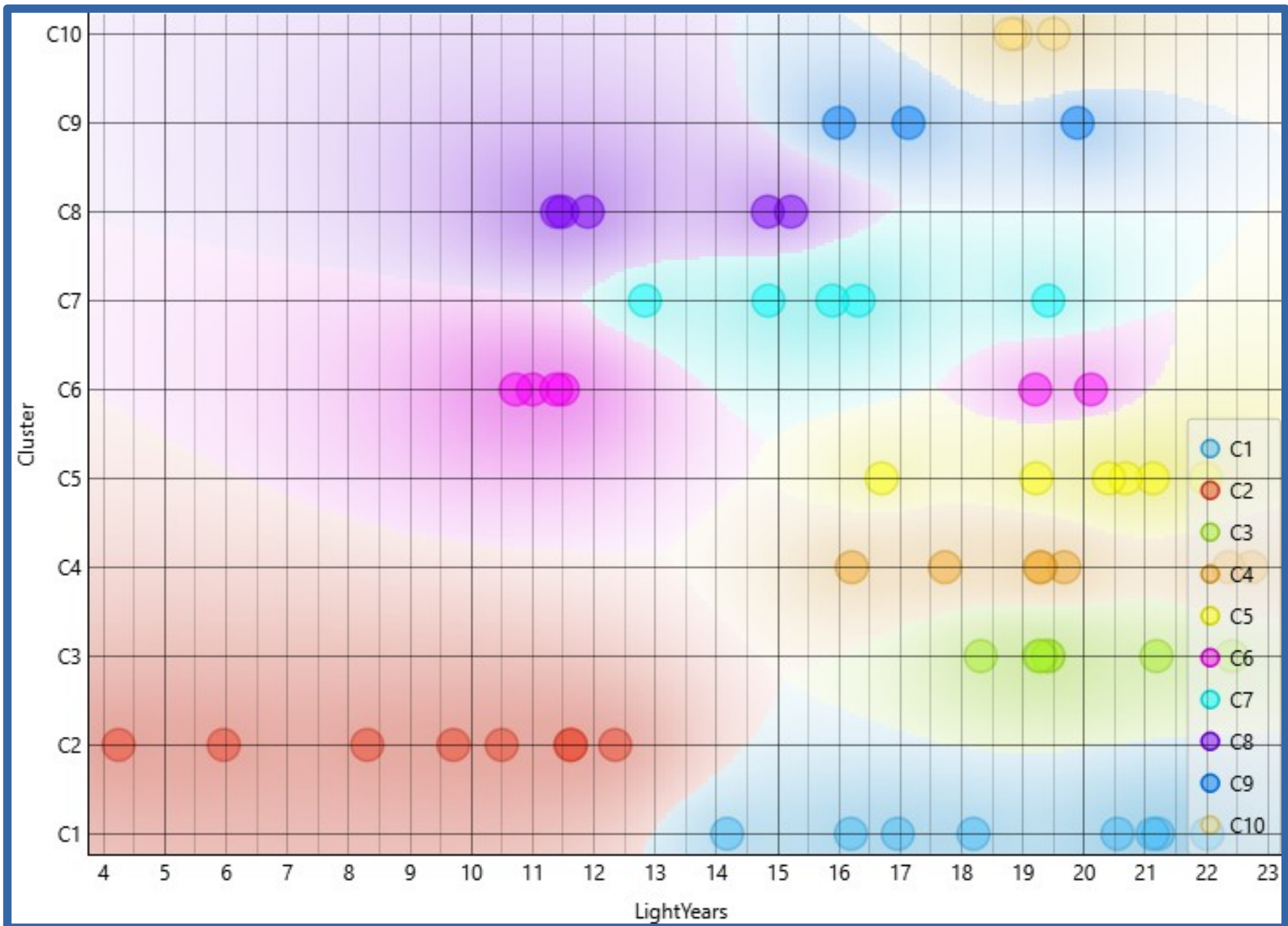
Violin Plot

Distributions Plot with Kernel Density

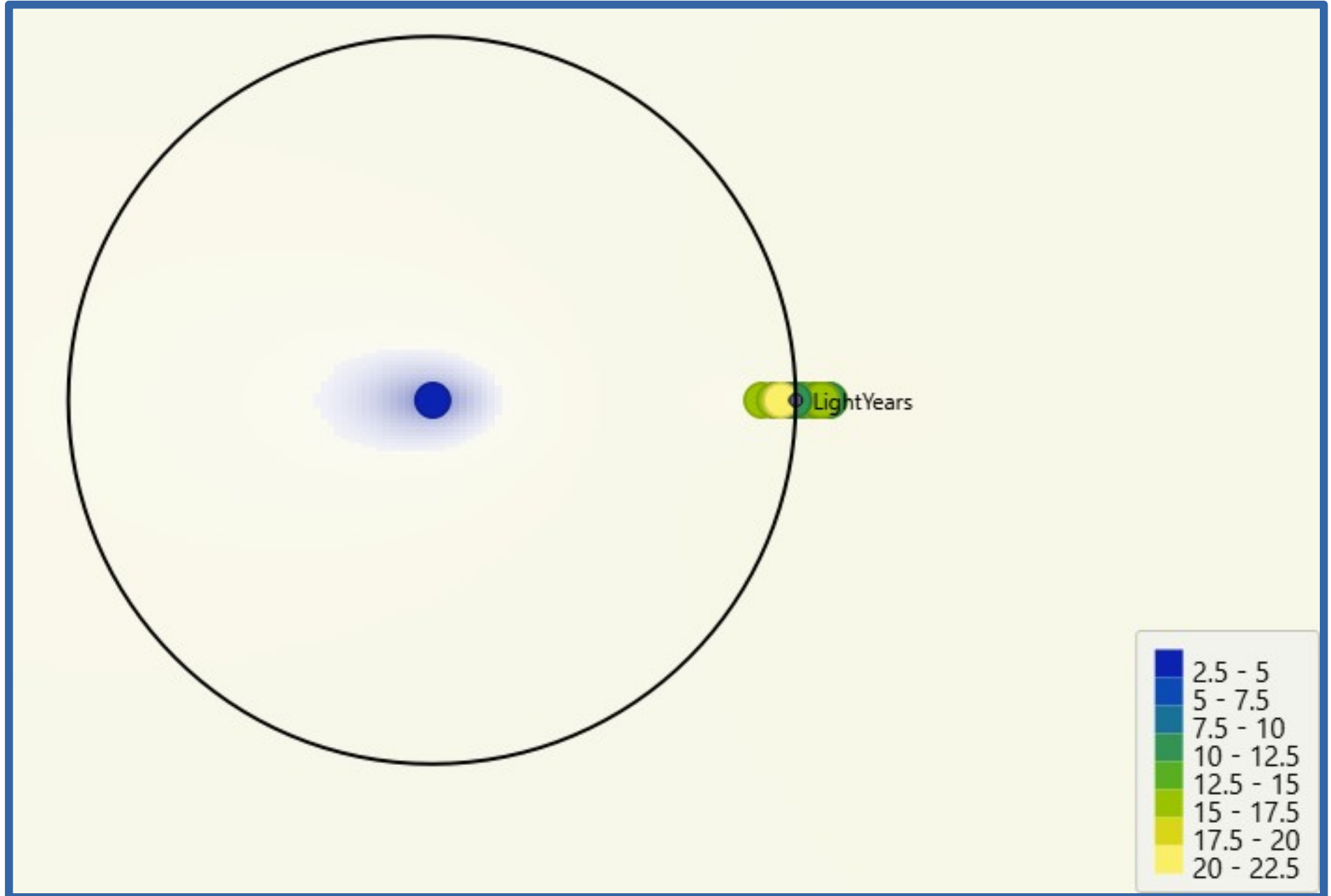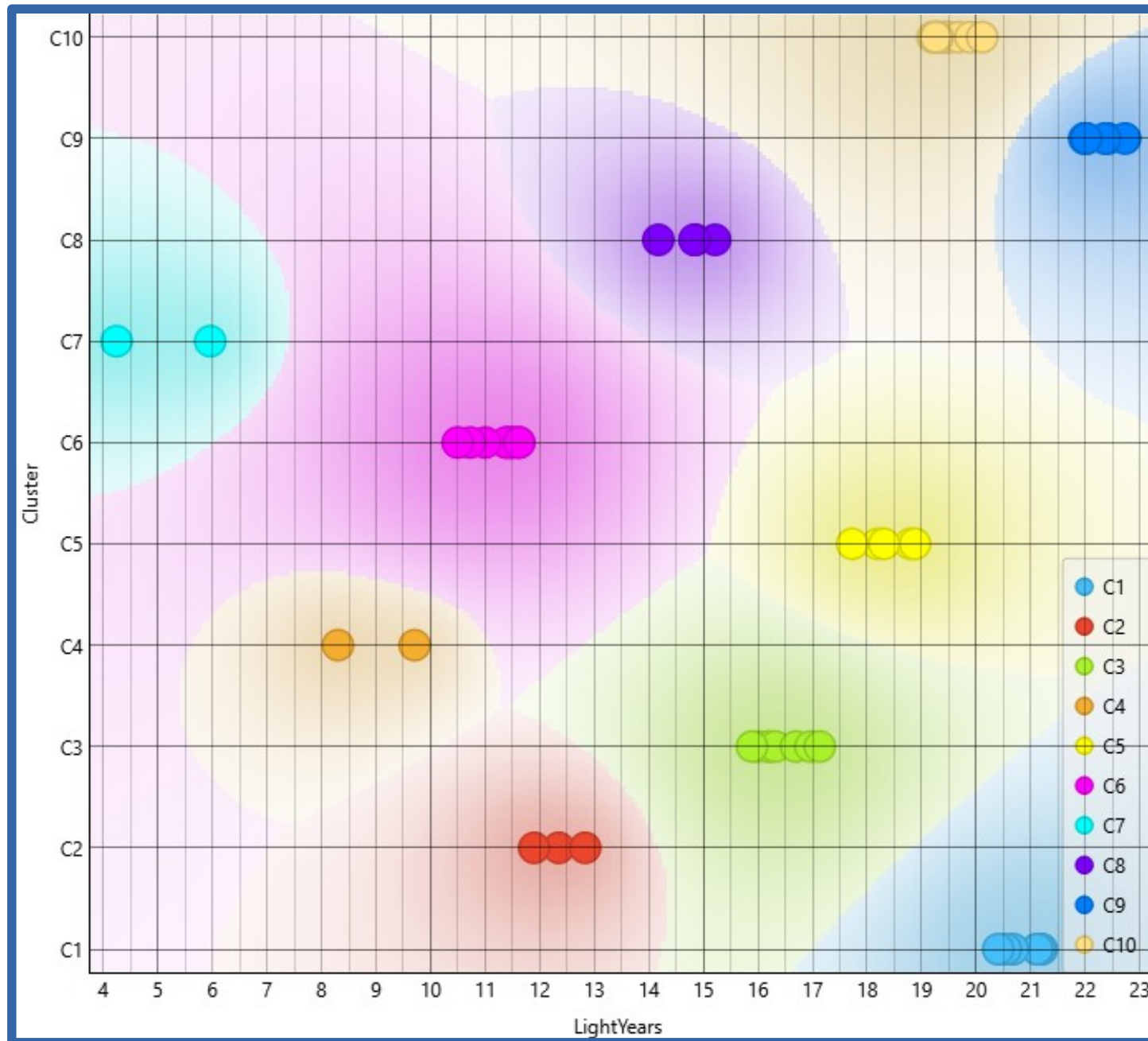# Self-Organizing Map 10x10 Hex Grid

Linear Projection

LightYears

■	2.5 - 5
■	5 - 7.5
■	7.5 - 10
■	10 - 12.5
■	12.5 - 15
■	15 - 17.5
■	17.5 - 20
■	20 - 22.5

Louvain Clustering With 10 Clusters Applied to Scatter plot

Radviz

LightYears

■	2.5 - 5
■	5 - 7.5
■	7.5 - 10
■	10 - 12.5
■	12.5 - 15
■	15 - 17.5
■	17.5 - 20
■	20 - 22.5

K-Means With 10 Clusters Applied to Scatter plot

Box Plot

16.6373 ± 4.4282

12.5906   18.1933   19.7841

12   14   16   18   20

LightYears

SCATTER PLOT

Bar Plot