

Temporal and spatial intraspecific variation of primary seed dispersal in *Scrophularia canina* L., a widespread plant with unspecialised diaspores–Errata

Rodríguez-Riaño T, Pérez-Bote JL, López J, Valtueña FJ, González M, Ortega-Olivencia A. 2017. Temporal and spatial intraspecific variation of primary seed dispersal in *Scrophularia canina* L., a widespread plant with unspecialised diaspores. *Plant Ecology & Diversity*. 10: 53-63. <https://doi.org/10.1080/17550874.2017.1287224>

When the above article was first published online, an error occurred in the skewness and kurtosis calculation in tables 4 and 5. Hence, the author has rectified both parameters in tables 4 and 5 with the new statistical results.

The recalculations involve the following changes:

- 1.- For statistical analyses the kurtosis variable was normalised by $\log(\text{abs}(\text{kurtosis}))$ transformation (logarithm of absolute value of kurtosis).
- 2.- Skewness is significantly affected by year, compass and their interaction. Nevertheless, kurtosis is only significantly affected by year (see new Table 4).
- 3.- Skewness is positively correlated with plant lateral spread in the second year and when both year are considered together. Conversely, kurtosis is negatively correlated with plant height and seed production but only when both year are considered together (see new Table 5).
- 4.- The skewness and kurtosis indices after recalculation are shown in the new Table S1

We apologize for the error.

Table 4. Statistical analysis of skewness and kurtosis indices, slope, modal dispersal distance, percentiles of the seed shadow, and seed percentage beneath plant lateral spread (% Seed).

| | Year | | Compass | | Year × Compass | |
|-----------------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|
| | <i>F / Wald</i> | <i>P</i> | <i>F / Wald</i> | <i>P</i> | <i>F / Wald</i> | <i>P</i> |
| Skewness ^a | 14.59 | 0.004 | 3.76 | 0.033 | 4.60 | 0.025 |
| Kurtosis ^a | 9.22 | 0.014 | 3.11 | 0.100 | 3.55 | 0.079 |
| Slope ^a | 41.40 | 0.000 | 1.55 | 0.225 | 0.33 | 0.808 |
| Modal | 11.06 | 0.001 | 7.80 | 0.050 | 14.87 | 0.002 |
| Percentiles | | | | | | |
| 25th ^a | 27.37 | 0.000 | 5.90 | 0.117 | 1.99 | 0.574 |
| 50th | 5.97 | 0.015 | 10.00 | 0.019 | 8.05 | 0.045 |
| 75th | 6.60 | 0.010 | 24.36 | 0.000 | 17.17 | 0.001 |
| 90th | 4.97 | 0.026 | 5.51 | 0.138 | 28.01 | 0.000 |
| 99th ^a | 3.59 | 0.058 | 30.92 | 0.000 | 1.16 | 0.764 |
| % Seed | 0.38 | 0.555 | 1.34 | 0.284 | 4.28 | 0.013 |

Compass: principal compass directions. Kurtosis: normalised by $\log(\text{abs}(\text{kurtosis}))$ -transformation. F (two-way repeated-measures ANOVA): skewness, kurtosis, slope and %Seed. Wald (GEE): modal and percentiles.
^aTest values after model refitted without the not significant interaction.

Table 5. Spearman correlations between different studied seed shadow traits and three plant traits by year and by combined years

| | First year | | | Second year | | | Both years | | |
|-------------|---------------------|----------------------|----------------------|----------------------|---------------------|----------------------|----------------------|---------------------|----------------------|
| | Height | Lateral spread | Seed production | Height | Lateral spread | Seed production | Height | Lateral spread | Seed production |
| Skewness | 0.299 ^{ns} | 0.151 ^{ns} | 0.169 ^{ns} | -0.259 ^{ns} | 0.318* | 0.029 ^{ns} | -0.150 ^{ns} | 0.306** | -0.203 ^{ns} |
| Kurtosis | 0.082 ^{ns} | -0.048 ^{ns} | 0.189 ^{ns} | -0.254 ^{ns} | 0.195 ^{ns} | 0.017 ^{ns} | -0.249* | 0.167 ^{ns} | -0.237* |
| Slope | 0.100 ^{ns} | -0.083 ^{ns} | -0.103 ^{ns} | 0.017 ^{ns} | 0.057 ^{ns} | -0.195 ^{ns} | -0.207 ^{ns} | 0.104 ^{ns} | -0.521*** |
| Modal | 0.083 ^{ns} | 0.254 ^{ns} | 0.112 ^{ns} | -0.021 ^{ns} | 0.156 ^{ns} | -0.271 ^{ns} | -0.162 ^{ns} | 0.225* | -0.346** |
| Percentiles | | | | | | | | | |
| 25th | 0.262 ^{ns} | 0.335* | -0.130 ^{ns} | -0.167 ^{ns} | 0.560** | -0.142 ^{ns} | -0.138 ^{ns} | 0.506*** | -0.313** |
| 50th | 0.322* | 0.312* | -0.225 ^{ns} | -0.209 ^{ns} | 0.542*** | -0.111 ^{ns} | -0.119 ^{ns} | 0.479*** | -0.303** |
| 75th | 0.372* | 0.462** | -0.183 ^{ns} | -0.249 ^{ns} | 0.547*** | -0.122 ^{ns} | -0.094 ^{ns} | 0.547*** | -0.202 ^{ns} |
| 90th | 0.177 ^{ns} | 0.208 ^{ns} | -0.137 ^{ns} | -0.137 ^{ns} | 0.054 ^{ns} | -0.027 ^{ns} | -0.094 ^{ns} | 0.186 ^{ns} | -0.212 ^{ns} |
| 99th | 0.031 ^{ns} | -0.141 ^{ns} | -0.139 ^{ns} | -0.300 ^{ns} | 0.175 ^{ns} | -0.206 ^{ns} | -0.249* | 0.061 ^{ns} | -0.310** |
| % Seed | 0.363* | 0.644*** | 0.012 ^{ns} | -0.05 ^{ns} | 0.557*** | 0.101 ^{ns} | 0.158 ^{ns} | 0.559*** | 0.111 ^{ns} |

%Seed: percentage of seeds beneath plant's lateral spread. ***, P < 0.001; **, P < 0.01; *, P < 0.05; ns, not significant.

Table S1. Skewness index, kurtosis index and slope value per year and compass direction.

| | | Skewness | | Kurtosis | | Slope | |
|-------------|---|----------|---------|----------|---------|---------|---------|
| | | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| First year | N | 0.356 | 0.252 | -2.955 | -2.923 | -4.97 | -1.75 |
| | S | 0.373 | 0.241 | -2.971 | -2.865 | -4.58 | -1.00 |
| | E | 0.333 | 0.253 | -2.975 | -2.894 | -4.60 | -1.48 |
| | W | 0.336 | 0.253 | -2.959 | -2.865 | -5.21 | -1.41 |
| Second year | N | 0.426 | 0.246 | -2.960 | -2.804 | -3.13 | -0.77 |
| | S | 0.582 | 0.278 | -2.941 | -1.912 | -2.98 | -0.45 |
| | E | 0.462 | 0.268 | -2.959 | -2.730 | -3.04 | -0.62 |
| | W | 0.446 | 0.257 | -2.964 | -2.659 | -2.45 | -0.75 |