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IS MATING FREQUENCY RELATED TO HOURS OF SUNSHINE THROUGHOUT THE YEAR IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897?

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***Abstract*- The mating frequency was tested for a correlation with hours of sunshine throughout the year in red millipedes *Centrobolus*. The mating frequency was correlated with hours of sunshine throughout the year ($r=-0.9255$, $r^2=0.8566$, $n=22$, $p<0.00001$). Mating frequencies were affected by differences in hours of sunshine throughout the year as small as 9.5 hours. As mating frequencies increased so hours of sunshine throughout the year decreased. This inverse relationship between mating frequency and hours of sunshine throughout the year was due to the effect of precipitation on temperature which was also negative. Millipede mating was triggered by rainfall which was linked to hours of sunshine throughout the year.**

***Keywords:* *Centrobolus*, Red Millipedes, sunshine, temperature.**

I. INTRODUCTION

Red millipedes are found in the southern African subregion with northern limits on the east coast being about -17° latitude S and southern limits being -35° latitude S. They are well represented in the littoral forests of the eastern half of the subcontinent [1-563]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [226]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [225]. These worm-like millipedes have female-biased sexual size dimorphism [57].

Here, the mating frequency was tested for a correlation with hours of sunshine throughout the year in *Centrobolus* Cook, 1897.

II. MATERIALS AND METHODS

Horizontal tergite width measurements for 22 species of southern African *Centrobolus* were obtained from published material [57]. These were halved to get radii (r). The surface areas (mm^2) were calculated based on the equation $2 \cdot \pi \cdot r \cdot (r + h)$ for males and females. Mating frequencies were measured in two species and hours of sunshine throughout the year records were obtained for type localities of each species and compared with a Mann-Whitney U-test (Two sample) at https://www.statskingdom.com/170median_mann_whitney.html. A correlation between the mating frequencies with hours of sunshine throughout the year was generated at https://www.socscistatistics.com/tests/pearson/default2.aspx (Appendix 1 & 2 respectively).

III. RESULTS

The mating frequency was correlated with hours of sunshine throughout the year (Fig. 1: $r=-0.9255$, $r^2=0.8566$, $n=22$, $p<0.00001$).

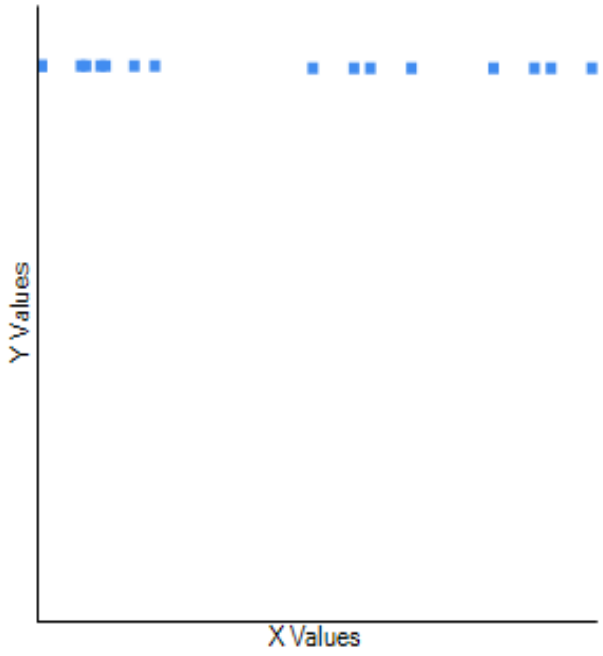

Fig. 1. Correlation between the mating frequency (X) and hours of sunshine throughout the year (Y) across therange of *Centrobolus* Cook, 1897.

Hours of sunshine throughout the year for the two species' localities were significantly different (U=256, Z=-5.546, n=16, 16, p=2.923e-8).

IV. DISCUSSION

There is a correlation between mating frequencies and hours of sunshine throughout the year in *Centrobolus*. Mating frequencies are affected by differences in hours of sunshine throughout the year as small as 9.5 hours. As mating frequencies increase so hours of sunshine throughout the year decrease. This inverse relationship between mating frequency and hours of sunshine throughout the year is due to the effect of precipitation on temperature which is also negative. Millipede mating is triggered by rainfall which is linked to hours of sunshine throughout the year.

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443. Cooper Mark. SPECIES RICHNESS IS MARGINALLY RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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APPENDIX 1. Mating frequencies in *Centrobolus* Cook, 1897.

0
0
0.0165
0.0135
0.0093
0.0057
0.00855
0.00645
0.066
0.054
0.0744
0.0456
0.072
0.048
0.0396
0.0804

APPENDIX 2. Hours of sunshine throughout the year (h) for two species of *Centrobolus* Cook, 1897.

2709.47
2699.92