

IS MATING FREQUENCY RELATED HIGHEST TOTAL HOURS OF SUNSHINE THROUGHOUT A MONTH IN FOREST RED MILLIPEDES *CENTROBOLUS COOK*, 1897?

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Abstract- The mating frequency was tested for a correlation with highest total hours of sunshine throughout a month in red millipedes *Centrobolus*. The mating frequency was correlated with highest total hours of sunshine throughout a month ($r=0.9255$, $r^2=0.8566$, $n=16$, $p<0.00001$).

Keywords: Red Millipedes, 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 highest total hours of sunshine in a month in *Centrobolus* Cook, 1897.

II. MATERIALS AND METHODS

Horizontal tergite width measurements for two 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. A correlation between the mating frequencies with highest total hours of sunshine in a month was generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1 & 2 respectively).

III. RESULTS

The mating frequency was correlated with highest total hours of sunshine throughout a month (Fig. 1: $r= 0.9255$, $r^2=0.8566$, $n=16$, $p<0.00001$).

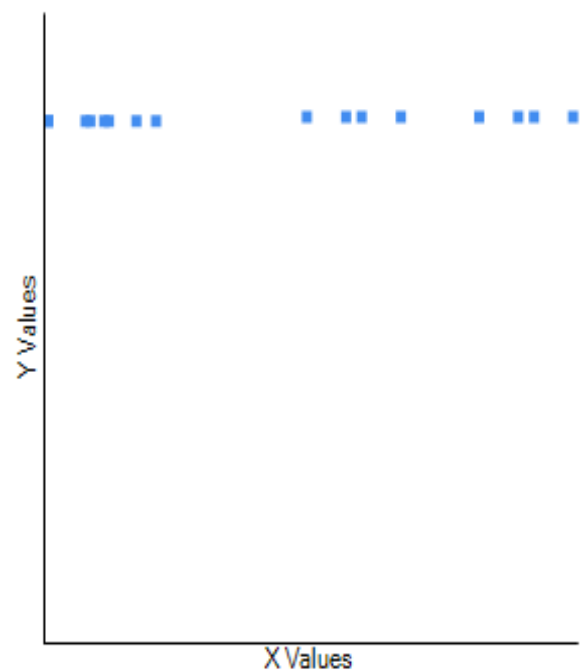


Fig. 1. Correlation between the mating frequency (X) and highest total hours of sunshine in a month (Y) across the range of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a potential correlation between mating frequencies and highest total hours of sunshine in a month in *Centrobolus anulatus* and *C. inscriptus*.

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401. Cooper Mark. AVERAGE TEMPERATURE VARIATION IS RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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409. Cooper Mark. TEMPERATURE IS RELATED TO LONGITUDE 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.** Highest total hours of sunshine in a month (h) for two species of *Centrobolus* Cook, 1897.
- 248.89
- 248.89
- 248.89
- 248.89
- 248.89
- 248.89
- 248.89
- 248.89
- 248.89
- 248.89
- 250.86
- 250.86

250.86
250.86
250.86
250.86
250.86
250.86