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IS MATING FREQUENCY RELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897?

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Abstract- The mating frequency was tested for a correlation with minimum temperature in red millipedes *Centrobolus*. The mating frequency was correlated with (minimum) temperature (r=- 0.9255, r^2=0.8566, n=22, p<0.00001). Mating frequencies were affected by differences in minimum temperature as small as 1.2 degrees Celsius. As mating frequencies increased so minimum temperatures decreased. This inverse relationship between mating frequency and minimum temperature was due to the effect of precipitation on temperature which was also negative. Millipede mating was triggered by rainfall which was linked to temperature declines.

Keywords: *Centrobolus*, rainfall, 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 minimum temperature 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 minimum temperature 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 minimum temperature was generated at https://www.socscistatistics.com/tests/pearson/default2.aspx (Appendix 1 & 2 respectively).

III. RESULTS

The mating frequency was correlated with minimum temperature (Fig. 1: r=- 0.9255, r^2=0.8566, n=22, p<0.00001).

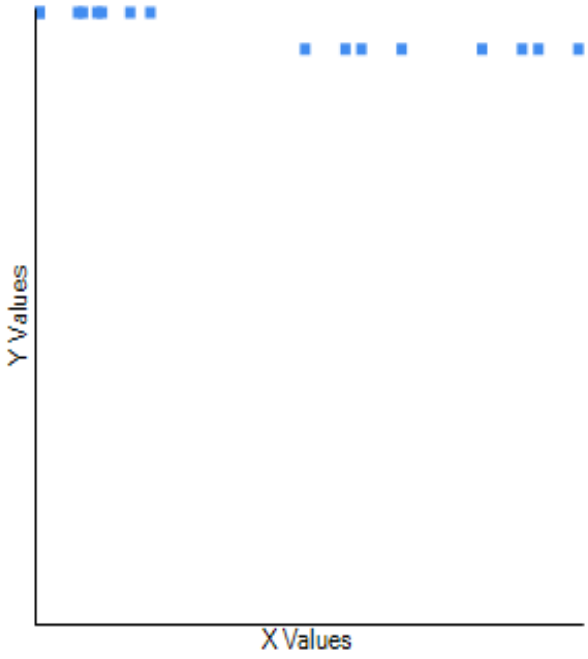

Fig. 1. Correlation between the mating frequency (X) and minimum temperature (Y) across therange of *Centrobolus* Cook, 1897.

Minimum temperatures 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 minimum temperature in *Centrobolus*. Mating frequencies are affected by differences in minimum temperature as small as 1.2 degrees Celsius. As mating frequencies increase so minimum temperatures decrease. This inverse relationship between mating frequency and minimum temperature is due to the effect of precipitation on temperature which is also negative. Millipede mating is triggered by rainfall which is linked to temperature declines.

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413. Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).

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416. Cooper Mark. MATING FREQUENCY IS RELATED to DISTANCE TO THE NEAREST AIRPORT 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. Minimum temperature (degrees Celsius) for two species of *Centrobolus* Cook, 1897.

19.9
18.7