

COPULATION DURATION IS MODELLED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

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Abstract- The copulation duration was tested for a correlation with minimum temperature in red millipedes *Centrobolus*. The copulation duration was negatively correlated with minimum temperature ($r=-0.9688$, $r^2=0.9386$, $n=4$, $p=0.000073$) (Pearson's $r=-0.96881194$, Z score= -2.07257509 , $n=4$, $p=0.01910585$). At higher minimum temperatures copulations were shorter presumably due to higher energy expenditure.

Keywords: copulation, 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 copulation duration 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. A correlation between the copulation duration with minimum temperature duplicated and was generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1 & 2 respectively) and <https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php>.

III. RESULTS

The copulation duration was correlated with minimum temperature (Figure 1: $r=-0.9688$, $r^2=0.9386$, $n=4$, $p=0.000073$) (Figure 2: Pearson's $r=-0.96881194$, Z score= -2.07257509 , $n=4$, $p=0.01910585$).

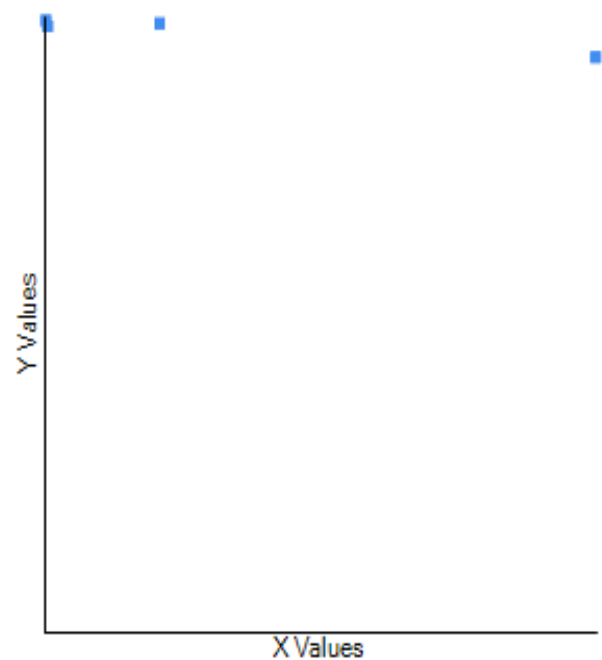


Fig. 1. Correlation between the copulation duration (X) and minimum temperature (Y) across the range of *Centrobolus* Cook, 1897.

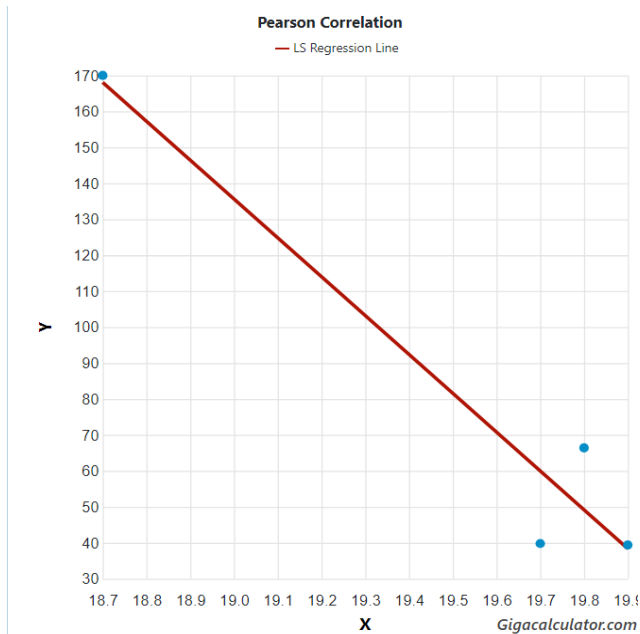


Fig. 2. Correlation between the minimum temperature (X) and copulation duration (Y) fitted with a line across the range of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between copulation duration and minimum temperature in *Centrobolus*. At higher minimum temperatures copulations were shorter presumably due to higher energy expenditure.

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394. Cooper Mark. SURFACE AREA IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST REDMILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
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402. Cooper Mark. CURVED SURFACE AREA IS RELATED AVERAGE TEMPERATURE VARIATION IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
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408. Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
409. Cooper Mark. TEMPERATURE IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
410. Cooper Mark. PRECIPITATION IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
411. Cooper Mark. PRECIPITATION IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
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422. Cooper Mark. Surface area to volume ratio correlates with the month with the most daily hours of sunshine in pill millipedes *Sphaerotherium* Brandt, 1833. (In Prep.).
423. Cooper Mark. Male surface area to volume ratio tracks average temperature in pill millipedes *Sphaerotherium* Brandt, 1833. (In Prep.).
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435. Cooper Mark. Male surface area to volume ratio correlates with the lowest average temperature in pill millipedes *Sphaerotherium* Brandt, 1833. (In Prep.).
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439. Cooper Mark. The wettest months varies with the distance to the closest airport across the distribution of pill millipedes *Sphaerotherium* Brandt, 1833. (In Prep.).
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452. Cooper Mark. WIDTH IS RELATED TO HOURS OF SUNSHINE THROUGHOUT THE YEAR IN FOREST RED MILLIPEDES *CENTROBOLUS COOK*, 1897. (In Prep.).
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454. Cooper Mark. WIDTH IS RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES *CENTROBOLUS COOK*, 1897. (In Prep.).
455. Cooper Mark. LENGTH IS RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES *CENTROBOLUS COOK*, 1897. (In Prep.).
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457. Cooper Mark. CURVED SURFACE AREA IS RELATED TO LENGTH IN FOREST RED MILLIPEDES *CENTROBOLUS COOK*, 1897. (In Prep.).
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459. Cooper Mark. COPULATION DURATION IS RELATED TO CURVED SURFACE AREA IN FOREST RED MILLIPEDES *CENTROBOLUS COOK*, 1897. (In Prep.).
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484. Cooper Mark. TEMPERATURE IS RELATED TO MAXIMUM TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
485. Cooper Mark. PRECIPITATION IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
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489. Cooper Mark. HIGHEST TOTAL HOURS OF SUNSHINE THROUGHOUT A MONTH ARE RELATED TO MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
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APPENDIX 1. Copulation duration in *Centrobolus* Cook, 1897.

39.4
66.4
170
39.8
39.4
66.4
170
39.8

APPENDIX 2. Minimum temperature (degrees Celsius) for four species of *Centrobolus* Cook, 1897.

19.9
19.8
18.7
19.7
19.9
19.8
18.7
19.7