

COPULATION DURATION IS RELATED TO LOWEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES *CENTROBOLUS COOK*, 1897

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Abstract- Lowest relative humidity was tested for a correlation with copulation duration in red millipedes *Centrobolus*. Lowest relative humidity was correlated with copulation duration ($r=-0.9034$, $r^2=0.8161$, $z\text{ SCORE}=-2.10804123$, $n=5$, $p=0.035733$).

Keywords: Red Millipedes, sunshine, moments.

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 [1-297]. 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 lowest relative humidity was tested for a correlation with copulation duration in *Centrobolus Cook*, 1897.

II. MATERIALS AND METHODS

Horizontal tergite width measurements for 4 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 copulation duration and lowest relative humidity was generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1 & 2 respectively).

III. RESULTS

Lowest relative humidity was correlated with copulation duration (Fig. 1: $r=-0.9034$, $r^2=0.8161$, $n=5$, $p=0.035733$).

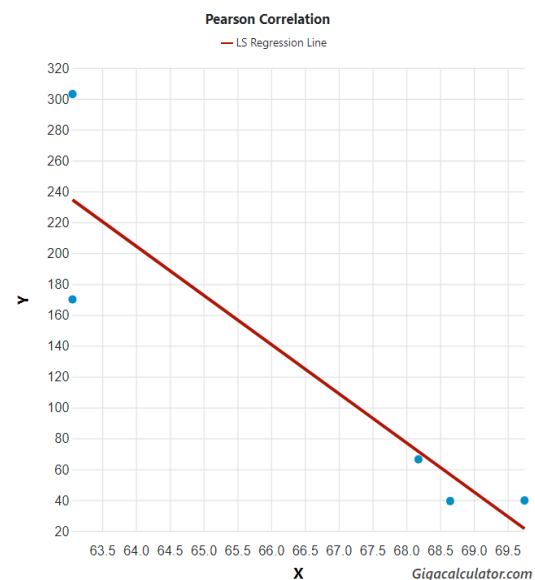


Fig. 1. Correlation between copulation duration (x) and lowest relative humidity (y) across the range of *Centrobolus Cook*, 1897.

IV. DISCUSSION

There is a correlation between copulation duration with lowest relative humidity in *Centrobolus*.

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395. Cooper Mark. MAXIMUM TEMPERATURE IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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398. Cooper Mark. LATITUDE IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).

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- 411.Cooper Mark. TEMPERATURE IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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- 414.Cooper Mark. HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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- 417.Cooper Mark. SPECIES RICHNESS IS NOT RELATED TO DISTANCE TO THE NEAREST AIRPORT IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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- 424.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.).
- 425.Cooper Mark. Male surface area to volume ratio tracks average temperature in pill millipedes *Sphaerotherium* Brandt, 1833. (In Prep.).
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437. 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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440. Cooper Mark. The driest months varies with the distance to the closest airport across the distribution of pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
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459. Cooper Mark. CURVED SURFACE AREA IS RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
460. Cooper Mark. CURVED SURFACE AREA IS RELATED TO SEX RATIO IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
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466. Cooper Mark. CURVED SURFACE AREA IS RELATED TO SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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477. Cooper Mark. COPULATION DURATION IS MODELLED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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- 487.Cooper Mark. PRECIPITATION IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 488.Cooper Mark. HIGHEST TOTAL HOURS OF SUNSHINE THROUGHOUT A MONTH ARE RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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APPENDIX 1. The copulation durations (minutes) in *Centrobolus Cook*, 1897.

170
66.4
39.8
303
39.4

APPENDIX 2. Lowest relative humidity (%) across the range of *Centrobolus Cook*, 1897 for which mass were recorded.

63.06
68.18
69.75
63.06
68.65