

TEMPERATURE IS RELATED MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

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Abstract- The minimum temperature was tested for a correlation with temperature in red millipedes *Centrobolus*. The minimum temperature was correlated with temperature ($r=0.7421$, $r^2=0.5507$, $n=22$, $p=0.000077$).

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 minimum temperature was tested for a correlation with 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. Climatic data in the form of minimum temperature and mean temperature for 22 type localities was obtained at <https://en.climate-data.org/>. A correlation between the minimum temperature with temperature was generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1 & 2 respectively).

III. RESULTS

The minimum temperature was correlated with temperature (Fig. 1: $r=0.7421$, $r^2=0.5507$, $n=22$, $p=0.000077$).

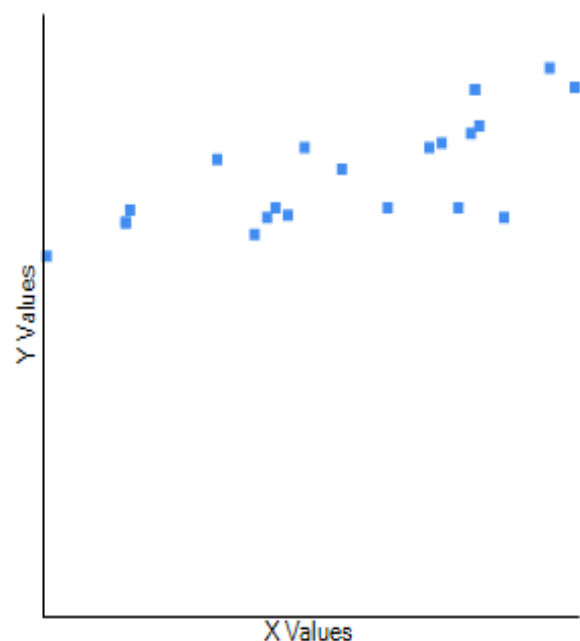


Fig. 1. Correlation between the minimum temperature (X) and average temperature (Y) across the range of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between minimum temperature and average temperature in *Centrobolus*. Climatic data in the form of temperature across red millipedes exhibit minimum temperature is directly linearly related to average temperature. This has implications on correlates such as mating dynamics (copulation duration) with variation across individuals from populations of millipedes. Copulation durations vary interspecifically with average temperature being negatively related to each other (inversely). This means copulation duration may also be negatively related to minimum temperature. This

was tested with empirical data once the need arose. The prediction is that because there is an inverse relationship between copulation duration and average temperature a similar relationship must be predicted with copulation duration and minimum temperature with the absolute values falling on the slope 0.7421. Larger sample sizes of copulation durations across species are required in order to test this prediction. Furthermore, temperature may affect development manifest in sexual bimaturism [25].

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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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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.).
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481. Cooper Mark. MATING FREQUENCY IS RELATED TO PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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APPENDIX 1. Minimum temperature across the range of *Centrobolus Cook*, 1897.

14.5
19.9
14.8
11.4
11.5
19.8
21.6
18.7

20.5
15.3
17.7
11.4
15.7
19.8
19.7
22.2
16.6
13.6
15.0
19.4
9.5
19.0

APPENDIX 2. Average temperature (degrees Celsius) across the range of *Centrobolus* Cook, 1897.

15.9
20.4
16.6
16.4
16.9
21.9
22.8
19.5
16.6
16.7
17.0
16.4
19.5
21.9
20.1
22.0
18.6
19.0
17.0
17.0
15.0
19.7