

HIGHEST TOTAL HOURS OF SUNSHINE THROUGHOUT A MONTH ARE RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS COOK, 1897*

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Abstract- Highest total hours of sunshine throughout in a month was tested for a correlation with temperature in red millipedes *Centrobolus*. Highest total hours of sunshine in a month were correlated with temperature ($r=-0.549$, $r^2=0.3012$, $n=22$, $p=0.008142$).

Keywords: hours of sunshine, rainy days, Red Millipedes.

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 [1-555]. 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 highest total hours of sunshine throughout a month 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. A correlation between highest total hours of sunshine throughout a month and month with temperature was generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1 & 2 respectively).

III. RESULTS

Highest total hours of sunshine in a month were correlated with temperature (Fig. 1: $r=-0.549$, $r^2=0.3012$, $n=22$, $p=0.008142$).

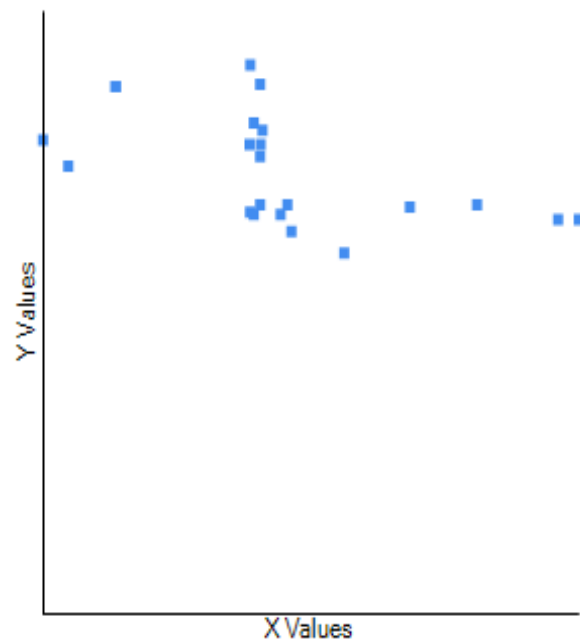


Fig. 1. Correlation between highest total hours of sunshine in a month (x) and temperature (y) across the range of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between highest total hours of sunshine throughout a month with temperature in *Centrobolus*.

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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.).
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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485. Cooper Mark. PRECIPITATION IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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APPENDIX 1. The highest total hours of sunshine in a month (h) in *Centrobolus* Cook, 1897.

259.73
 248.89
 256.60
 342.21
 293.68
 209.20
 247.85
 250.86
 248.89
 247.77
 250.72
 336.32
 247.65
 209.20
 251.38
 250.72
 195.55
 250.72
 312.99
 258.55

274.85
 188.32

APPENDIX 2. Temperature (degrees Celsius) in *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