

HIGHEST TOTAL HOURS OF SUNSHINE THROUGHOUT A MONTH ARE RELATED TO SPECIES VOLUME 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 species volume in red millipedes *Centrobolus*. Highest total hours of sunshine in a month were correlated with species volume ($r=-0.6604$, $r^2=0.4361$, $n=22$, $p=0.000831$).

Keywords: hours of sunshine, Red Millipedes, volume.

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 [1-554]. 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 species volume 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 species volume was generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1 & 2 respectively).

III. RESULTS

Highest total hours of sunshine throughout the year were correlated with species volume (Fig. 1: $r=-0.6604$, $r^2=0.4361$, $n=22$, $p=0.000831$).

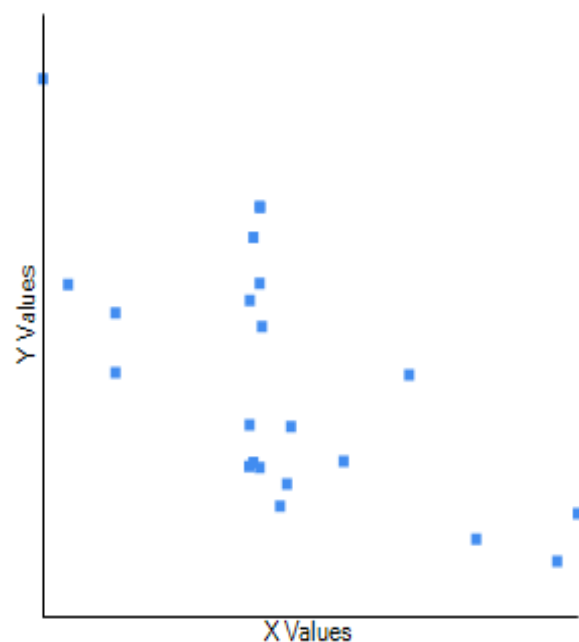


Fig. 1. Correlation between highest total hours of sunshine in a month (x) and species volume (y) across the range of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between highest total hours of sunshine throughout a month with species volume in *Centrobolus*. This trend probably matches the latitudinal and longitudinal trends with species volumes.

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APPENDIX 1. The highest total hours of sunshine in a month (h) in <i>Centrobolus</i> 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. Species volume in *Centrobolus* Cook, 1897.
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