

CURVED SURFACE AREA IS RELATED TO HOURS OF SUNSHINE THROUGHOUT THE YEAR IN FOREST RED MILLIPEDES *CENTROBOLUS COOK, 1897*

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<https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1-3).

Abstract- Hours of sunshine throughout the year was tested for a correlation with curved surface areas in red millipedes *Centrobolus*. Hours of sunshine throughout the year was related to female curved surface areas ($r=-0.5367$, $r^2=0.288$, $n=22$, $p=0.009967$). Hours of sunshine throughout the year was related to male curved surface areas ($r=-0.4314$, $r^2=0.1861$, $n=22$, $p=0.045222$).

Keywords: precipitation, Red Millipedes, sunshine.

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 [1-568]. 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, hours of sunshine throughout the year is correlated with curved surface areas 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 curved surface areas (mm^2) were calculated based on the equation Surface Area (Curved) = $2 \times \pi \times \text{Radius} \times \text{Height}$. A correlation between hours of sunshine throughout the year and curved surface areas were generated at

III. RESULTS

Hours of sunshine throughout the year was related to female curved surface areas (Fig. 1: $r=-0.5367$, $r^2=0.288$, $n=22$, $p=0.009967$). Hours of sunshine throughout the year was related to male curved surface areas (Fig. 2: $r=-0.4314$, $r^2=0.1861$, $n=22$, $p=0.045222$).

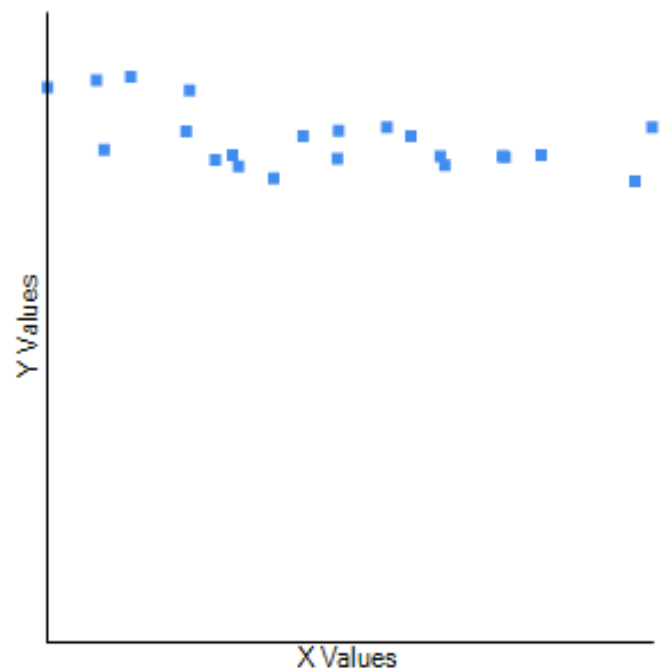


Fig. 1. Correlation between hours of sunshine throughout the year (h) and curved surface area in females in *Centrobolus* Cook, 1897.

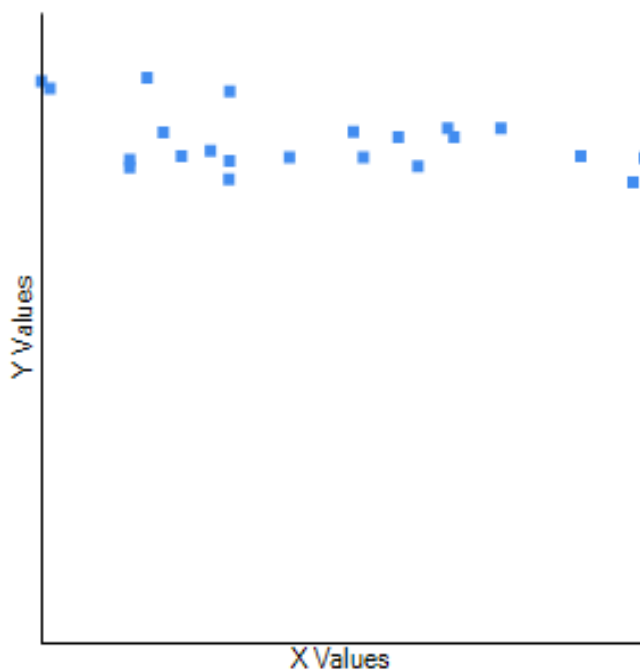


Fig. 2. Correlation between hours of sunshine throughout the year (h) and curved surface area in males in *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between hours of sunshine throughout the year and curved surface areas in *Centrobolus*.

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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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485. Cooper Mark. PRECIPITATION IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
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APPENDIX 1. Hours of sunshine throughout the year across the range of *Centrobolus* Cook, 1897.

2690.72
 2709.47
 2740.74
 3145.74
 2846.04
 2815.76
 2703.13
 2699.92

2709.47
 2583.18
 2864.06
 3087.04
 2646.85
 2815.76
 2654.59
 2702.09
 2864.06
 2682.25
 3126.58
 2841.89
 3070.45
 2564.32

APPENDIX 2. Curved surface area (mm²) in male *Centrobolus* Cook, 1897.

980.177
 2297.861
 1215.796
 1030.442
 1633.628
 1764.318
 1447.018
 2483.743
 1130.973
 1269.832
 2064.655
 746.442
 980.177
 1927.681
 1822.124
 1662.531
 1908.832
 1271.717
 721.310
 1078.195
 1272.345
 2450.442

APPENDIX 3. Curved surface area (mm²) in female *Centrobolus* Cook, 1897.

1884.956
 2817.380
 818.071
 939.965
 1890.610
 2221.734

2638.938
2652.133
1404.920
1594.044
3325.062
559.832
1432.566
1727.876
2376.301
2356.194
2111.150
1327.009
783.513
1193.805
1208.885
3245.894