

# CURVED SURFACE AREA IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

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**Abstract-** Temperature was tested for a correlation with curved surface areas in red millipedes *Centrobolus*. Temperature was related to female curved surface areas ( $r=0.5416$ ,  $r^2=0.2933$ ,  $n=22$ ,  $p=0.00917$ ). Temperature was related to male curved surface areas ( $r=0.5224$ ,  $r^2=0.2729$ ,  $n=22$ ,  $p=0.012706$ ).

**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  $-17^\circ$  latitude S and southern limits being  $-35^\circ$  latitude S. They are well represented in the littoral forests of the eastern half of the subcontinent [1-532]. 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, temperature 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 ( $\text{mm}^2$ ) were calculated based on the equation Surface Area (Curved) =  $2 \times \pi \times \text{Radius} \times \text{Height}$ . A correlation between temperature and curved surface areas were generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1-3).

## III. RESULTS

Temperature was related to female curved surface areas (Fig. 1:  $r=0.5416$ ,  $r^2=0.2933$ ,  $n=22$ ,  $p=0.00917$ ). Temperature was related to male curved surface areas (Fig. 2:  $r=0.5224$ ,  $r^2=0.2729$ ,  $n=22$ ,  $p=0.012706$ ).

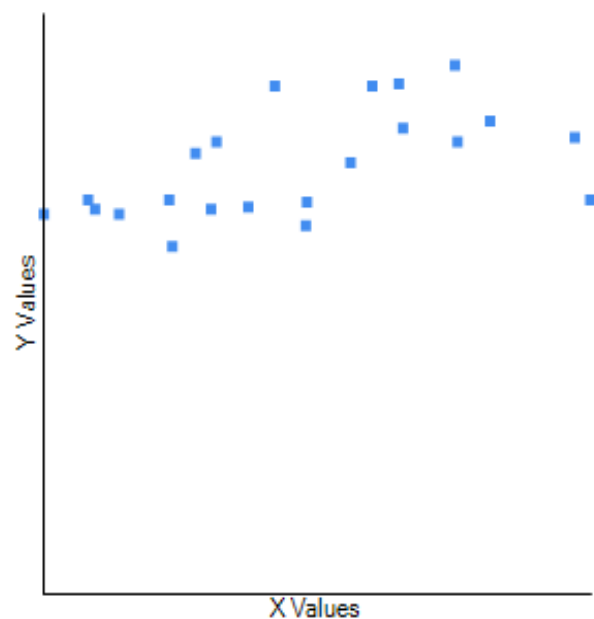


Fig. 1. Correlation between temperature (y) and curved surface area in females (x) in *Centrobolus* Cook, 1897.

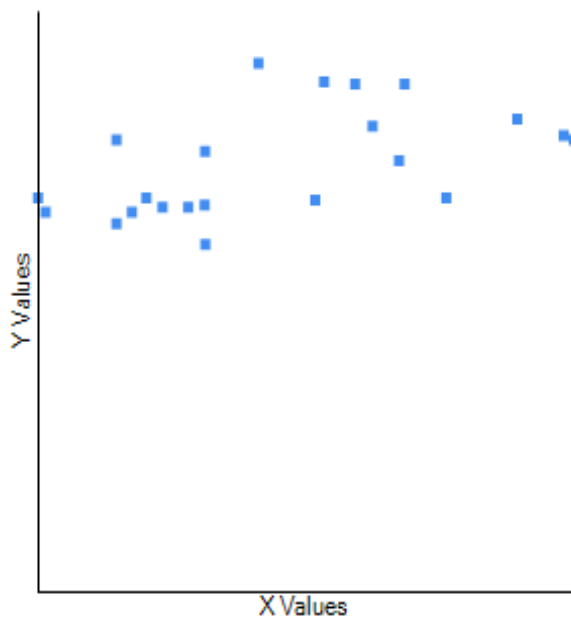


Fig. 2. Correlation between temperature (y) and curved surface area in males (x) in *Centrobolus* Cook, 1897.

#### IV. DISCUSSION

There is a correlation between temperature and curved surface areas in *Centrobolus*.

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**APPENDIX 1.** Temperature (degrees Celsius) across the range of *Centrobolus* Cook, 1897.

15.9  
20.4  
16.6

16.4	2817.38
16.9	818.071
21.9	939.965
22.8	1890.61
19.5	2221.734
16.6	2638.938
16.7	2652.133
17.0	1404.92
16.4	1594.044
19.5	3325.062
21.9	559.832
20.1	1432.566
22.0	1727.876
18.6	2376.301
19.0	2356.194
17.0	2111.15
17.0	1327.009
15.0	783.513
19.7	1193.805
<b>APPENDIX 2.</b> Curved surface area (mm <sup>2</sup> ) in male <i>Centrobolus</i> Cook, 1897.	1208.885
	3245.894

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  
721.31  
1078.195  
1272.345  
2450.442

**APPENDIX 3.** Curved surface area (mm<sup>2</sup>) in female *Centrobolus* Cook, 1897.  
1884.956