

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

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Abstract- Mass was tested for a correlation with curved surface area in red millipedes *Centrobolus*. The mass was correlated with curved surface area ($r=0.8946$, $r^2=0.8003$, $n=10$, $p=0.000468$).

Keywords: curved surface area, mass, 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 [1-531]. 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 mass was tested for a correlation with curved surface area in *Centrobolus* Cook, 1897.

II. MATERIALS AND METHODS

Horizontal tergite width measurements for 4 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 mass with curved surface area was generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1 & 2 respectively).

III. RESULTS

The mass was correlated with curved surface area ($r=0.8946$, $r^2=0.8003$, $n=10$, $p=0.000468$) (Fig. 1: Pearson's $r=0.89464317$, Z score= 3.82236038 , $n=10$, $p=0.00006611$).

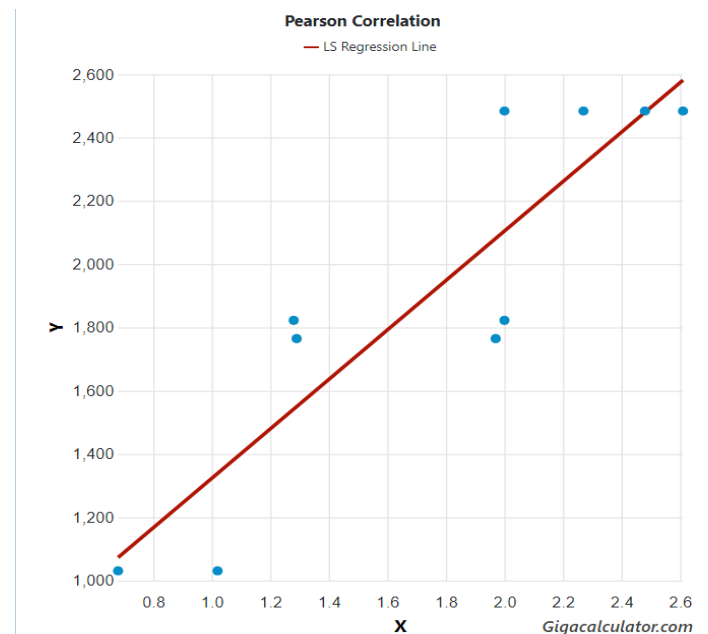


Fig. 1. Correlation between mass (Y) and curved surface area (X) across the range of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between mass with curved surface area in *Centrobolus*.

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APPENDIX 1. The mass (g) across *Centrobolus* Cook, 1897.

1.29
1.97
2.48
2.00
2.27
2.61
1.28
2.00
0.68
1.02

APPENDIX 2. Curved surface area (mm²) across four species of *Centrobolus* Cook, 1897 for which mass were recorded.

1764.318
2483.743
1822.124
1030.442