

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

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Abstract- Species volume was tested for a correlation with curved surface areas in red millipedes *Centrobolus*. Species volume was related to female curved surface areas ($r=0.9269$, $r^2=0.9279$, $n=22$, $p<0.00001$). Species volume was related to male curved surface areas ($r=0.9633$, $r^2=0.8591$, $n=22$, $p<0.00001$).

Keywords: curved, Red Millipedes, surface.

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 [1-528]. 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, species volume 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 species volume and curved surface areas were generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1-3).

III. RESULTS

Species volume was related to female curved surface areas (Fig. 1: $r=0.9269$, $r^2=0.9279$, $n=22$, $p<0.00001$). Species volume was related to male curved surface areas (Fig. 2: $r=0.9633$, $r^2=0.8591$, $n=22$, $p<0.00001$).

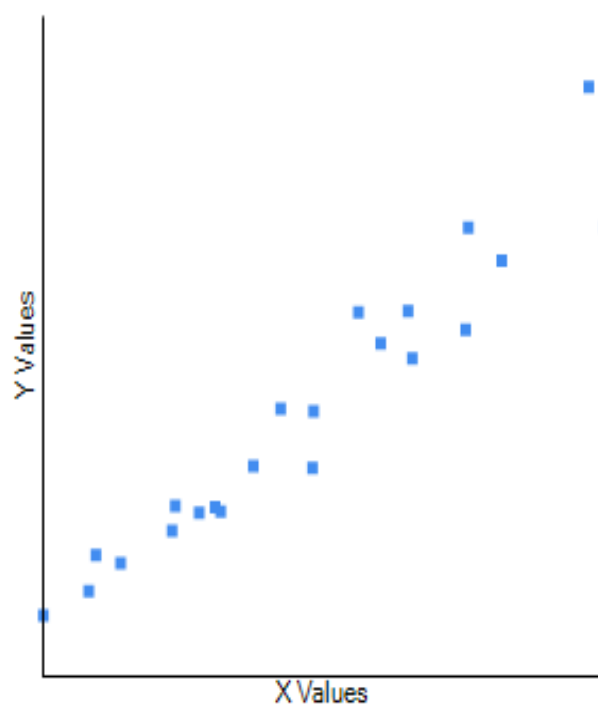


Fig. 1. Correlation between species volume and curved surface area in females in *Centrobolus* Cook, 1897.

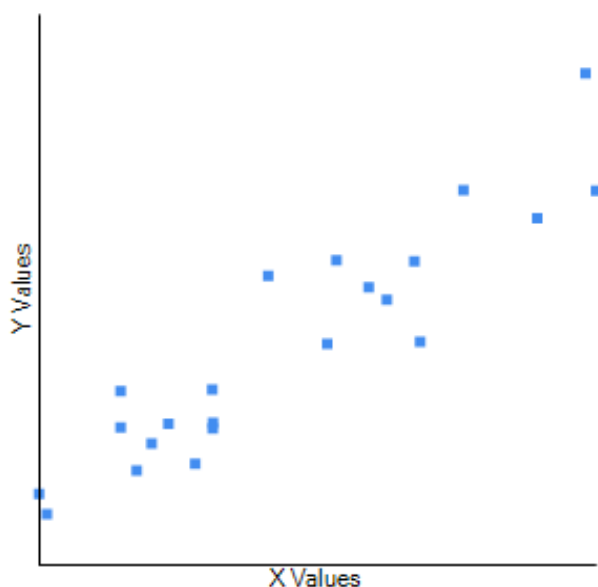


Fig. 2. Correlation between surface area and curved surface area in males in *Centrobolus* Cook, 1897.

IV. DISCUSSION

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

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APPENDIX 1. Species volume across the range of *Centrobolus* Cook, 1897.

952
1894
557
522
1210
1518
1580
2043
775
962
2046
284
756
1221
1451
1666
1659
749

393	783.513
669	1193.805
781	1208.885
2683	3245.894

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
721.31
1078.195
1272.345
2450.442

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

1884.956
2817.38
818.071
939.965
1890.61
2221.734
2638.938
2652.133
1404.92
1594.044
3325.062
559.832
1432.566
1727.876
2376.301
2356.194
2111.15
1327.009