

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

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Abstract- Length was tested for a correlation with curved surface areas in red millipedes *Centrobolus*. Female length was related to female curved surface areas ($r=0.937$, $r^2=0.878$, $n=22$, $p<0.00001$). Male length was related to male curved surface areas ($r=0.9603$, $r^2=0.9222$, $n=22$, $p<0.00001$).

curved surface areas (Fig. 2: $r=0.9603$, $r^2=0.9222$, $n=22$, $p<0.00001$).

Keywords: area, curved, length, 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 [1-526]. 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, length 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 length and curved surface areas were generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1-3).

III. RESULTS

Female length was related to female curved surface areas (Fig. 1: $r=0.937$, $r^2=0.878$, $n=22$, $p<0.00001$). Male length was related to male

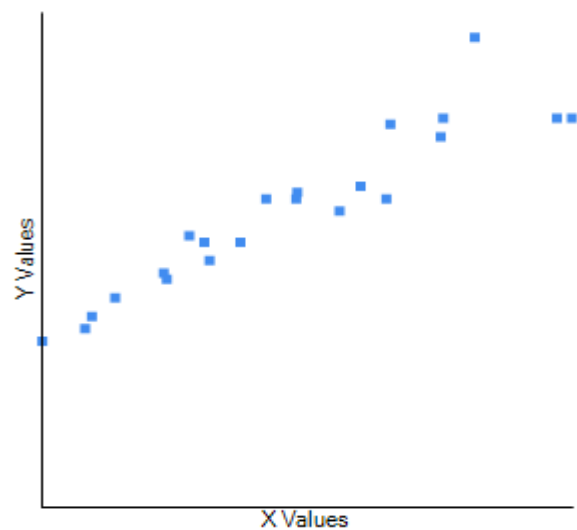


Fig. 1. Correlation between female length (y) and curved surface area (x) in females in *Centrobolus Cook*, 1897.

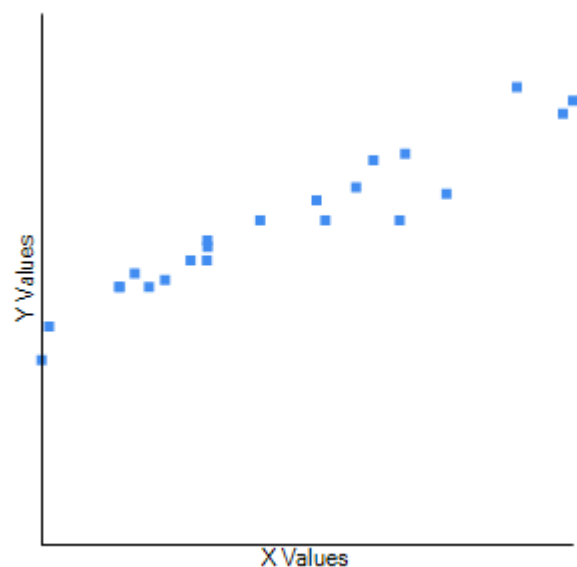


Fig. 2. Correlation between male length (y) and curved surface area (x) in males in *Centrobolus Cook*, 1897.

IV. DISCUSSION

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

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APPENDIX 1. Length (mm) in male *Centrobolus* Cook, 1897.

39
69
43
41
52
54
49
67
40
43
53
33
39
59
58
49
49
46
28
39
45
65

APPENDIX 2. Length (mm) in female *Centrobolus* Cook, 1897.

50
76
31
34
51
52
60
63
43
43
63
27
40
50
62
50
48
44

29	2111.15
38	1327.009
37	783.513
63	1193.805
Appendix 3. Curved surface area (mm ²) in male <i>Centrobolus</i> Cook, 1897.	1208.885
980.177	3245.894

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 4. 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