CURVED SURFACE AREA IS RELATED TO LOWEST HOURS OF SUNSHINE IN A DAY IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

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***Abstract*- Lowest hours of sunshine in a day was tested for a correlation with curved surface areas in red millipedes *Centrobolus*. Lowest hours of sunshine in a day was related to female curved surface areas (r=-0.5065, r^2=0.2565, n=22, p=0.016031). Lowest hours of sunshine in a day was related to male curved surface areas (r=-0.4956, r^2=0.2456, n=22, p=0.018891).**

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 [1-528]. 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, lowest hours of sunshine in a day 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 x π x Radius x Height. A correlation between lowest hours of sunshine in a day and curved surface areas were generated at https://www.socscistatistics.com/tests/pearson/default2.aspx (Appendix 1-3). Lowest hours of sunshine in a day was obtained at https://en.climate-data.org/ for each type locality.

III. RESULTS

Lowest hours of sunshine in a day was related to female curved surface areas (Fig. 1: r=-0.5065, r^2=0.2565, n=22, p=0.016031). Lowest hours of sunshine in a day was related to male curved surface areas (Fig. 2: r=-0.4956, r^2=0.2456, n=22, p=0.018891).

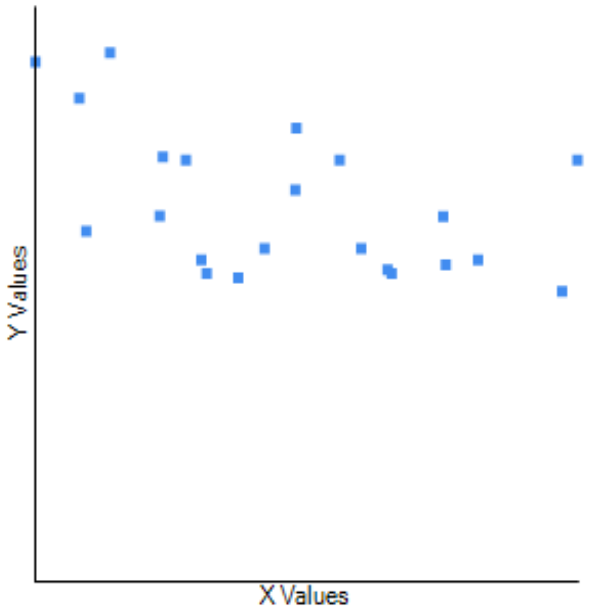

Fig. 1. Correlation between lowest hours of sunshine in a day (h) and curved surface area in females in *Centrobolus* Cook, 1897.

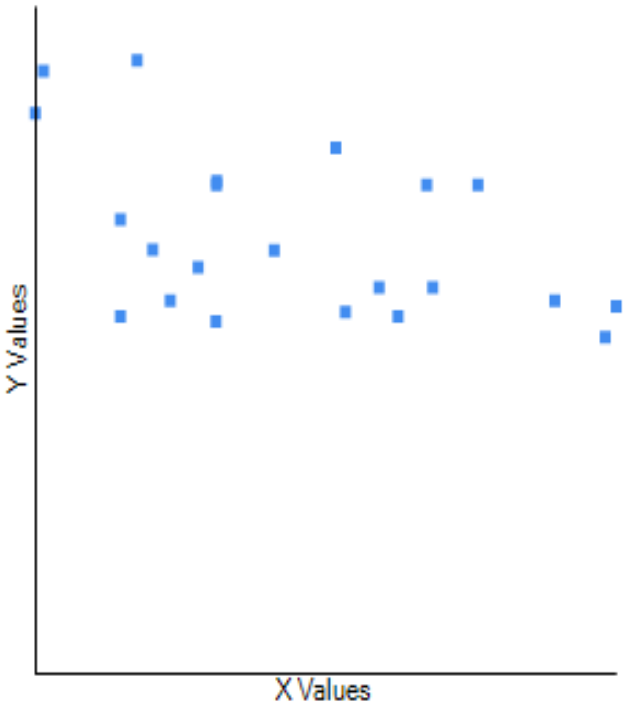

Fig. 2. Correlation between lowest hours of sunshine in a day (h) and curved surface area in males in *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between lowest total hours of sunshine in a day and curved surface areas in *Centrobolus*.

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APPENDIX 1. Lowest hours of sunshine in a day across the range of *Centrobolus* Cook, 1897.

8.18
6.73
7.33
11.04
9.47
6.97
7.63
6.63
6.73
6.35
8.81
10.85
6.44
6.97
6.44
6.52
8.81
8.81
10.1
7.64
8.87
6.07

APPENDIX 2. Curved surface area (mm^2) 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 (mm^2) 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