

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

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**Abstract-** Sex ratio was tested for a correlation with curved surface areas in red millipedes *Centrobolus*. Sex ratio was related to female curved surface areas ( $r=-0.4625$ ,  $r^2=0.2139$ ,  $n=8$ ,  $p=0.03001$ ). Sex ratio was related to male curved surface areas ( $r=0.4625$ ,  $r^2=0.2139$ ,  $n=8$ ,  $p=0.03001$ ).

**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 [1-527]. 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, sex ratio is correlated with curved surface areas in *Centrobolus* Cook, 1897.

### II. MATERIALS AND METHODS

Horizontal tergite width measurements for 2 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 sex ratio and curved surface areas were generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1-3).

### III. RESULTS

Sex ratio was related to female curved surface areas (Fig. 1:  $r=-0.4625$ ,  $r^2=0.2139$ ,  $n=8$ ,  $p=0.03001$ ). Sex ratio was related to male curved surface areas (Fig. 2:  $r=0.4625$ ,  $r^2=0.2139$ ,  $n=8$ ,  $p=0.03001$ ).

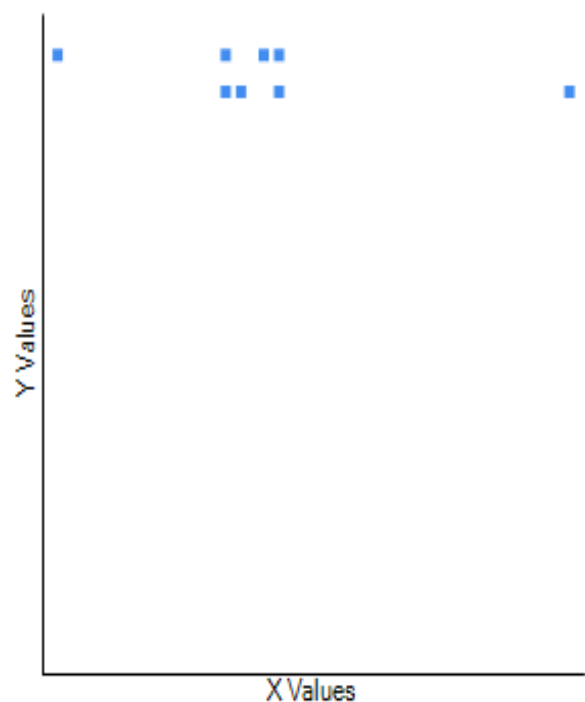


Fig. 1. Correlation between sex ratio and curved surface area in females in *Centrobolus* Cook, 1897.

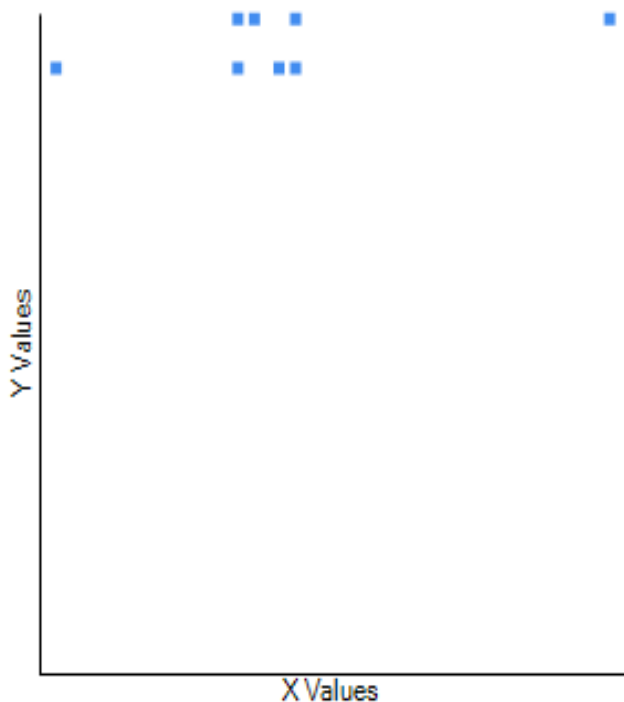


Fig. 2. Correlation between sex ratio and curved surface area in males in *Centrobolus* Cook, 1897.

#### IV. DISCUSSION

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

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**APPENDIX 1.** Sex ratio (males:females) in two species of *Centrobolus* Cook, 1897.

0.60  
0.33  
0.55  
0.62  
0.62  
0.57  
1.00  
0.55

**APPENDIX 2.** Curved surface area (mm<sup>2</sup>) in male's of two species of *Centrobolus* Cook, 1897.

2297.861  
2483.743

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

2817.380  
2652.133