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FEMALE WIDTH IS RELATED TO LOWEST NUMBER OF HOURS OF SUNSHINE IN A DAY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897

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***Abstract*- Lowest number of hours of sunshine in a day was tested for a correlation with width in forest red millipedes *Centrobolus*. Width in females was related to lowest number of hours of sunshine in a day (r=-0.4956, r^2=0.2456, n=22, p=0.018891) and width in males was marginally related to lowest number of hours of sunshine in a day (r=-0.4033, r^2=0.1627, n=22, p=0.062934).**

***Keywords:* surface area, SSD, 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 [1-376]. 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 number of hours of sunshine in a day is correlated with width 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 surface areas (mm^2) were calculated based on the equation $2 \cdot \pi \cdot r \cdot (r + h)$ for males and females (Appendix 1 & 2 respectively). A correlation between lowest number of hours of sunshine in a day and width was generated at https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php.

III. RESULTS

Width in females were related to lowest number of hours of sunshine in a day (Fig. 1: r=-0.4956, r^2=0.2456, n=22, p=0.018891) and width in males was marginally related to lowest number of hours of sunshine in a day (Fig. 2: r=-0.4033, r^2=0.1627, n=22, p=0.062934).

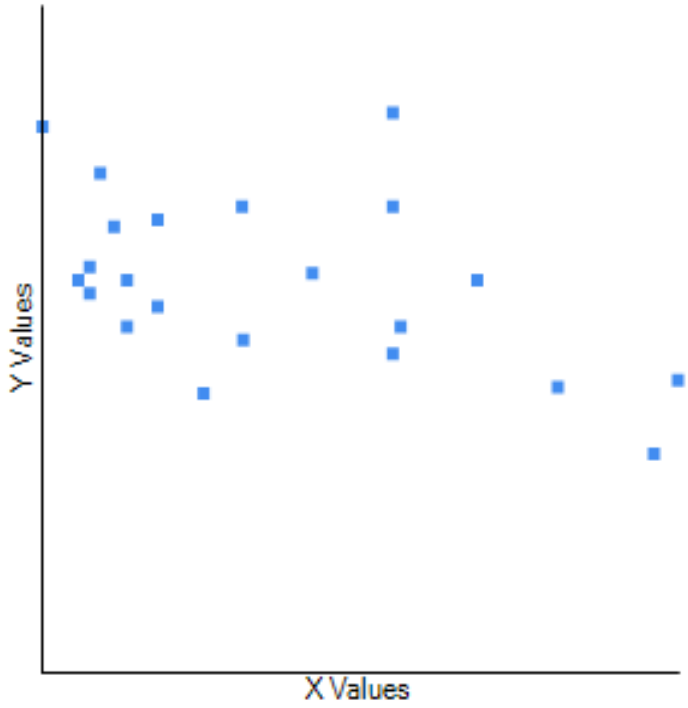

Fig. 1 Width in females correlated to lowest number of hours of sunshine in a day in *Centrobolus* Cook, 1897.

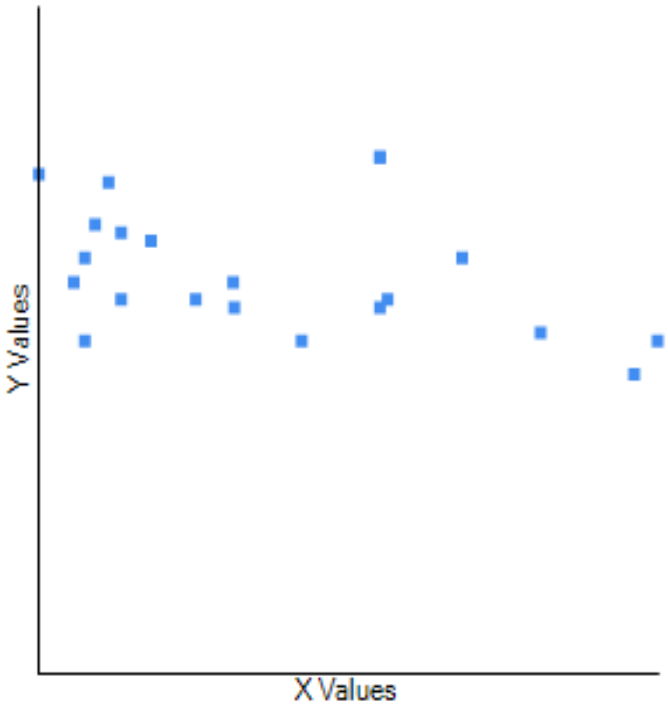

Fig. 2 Width in males marginally correlated to lowest number of hours of sunshine in a day in *Centrobolus* Cook, 1897.

IV. DISCUSSION

The significant differences between males and females in surface area are known in this genus [68]. There is a correlation between width lowest number of hours of sunshine in a day in females; marginally in males. This is an addition to one of the many correlated with body size in millipedes.

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APPENDIX 1. Lowest number of hours of sunshine in a day (h; two significant figures after the decimal) followed by width (mm) for female *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
6.0
5.9
4.2
4.4
5.9
6.8
7.0
6.7
5.2
5.9
8.4
3.3
5.7
5.5
6.1
7.5
7.0
4.8
4.3
5.0
5.2
8.2

APPENDIX 2. Lowest number of hours of sunshine in a day (h; two significant figures after the decimal) followed by width (mm) for male *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
4.0
5.3
4.5
4.0
5.0
5.2
4.7
5.9
4.5
4.7
6.2
3.6
4.0
5.2
5.0
5.4
6.2
4.4
4.1
4.4
4.5
6.0