

SECOND POLAR MOMENTS OF INERTNESS ARE RELATED TO WIDTH IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

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Abstract- Width was tested for a correlation with second polar moments of inertness in forest red millipedes *Centrobolus*. Width in females were related to second polar moments of inertness ($r=0.561$, $r^2=0.3147$, $n=22$, $p=0.006603$) and second polar moments of area were related to width in males ($r=0.6849$, $r^2=0.4691$, $n=22$, $p=0.0000436$).

Keywords: second, SSD, Red Millipedes, width.

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 [1-297]. 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, second polar moments of area are 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 second polar moments of area with width was generated at <https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php>.

III. RESULTS

Width in females were related to second polar moments of inertness (Fig. 1: $r=0.561$, $r^2=0.3147$,

$n=22$, $p=0.006603$) and second polar moments of area were related to width in males (Fig. 2: $r=0.6849$, $r^2=0.4691$, $n=22$, $p=0.0000436$).

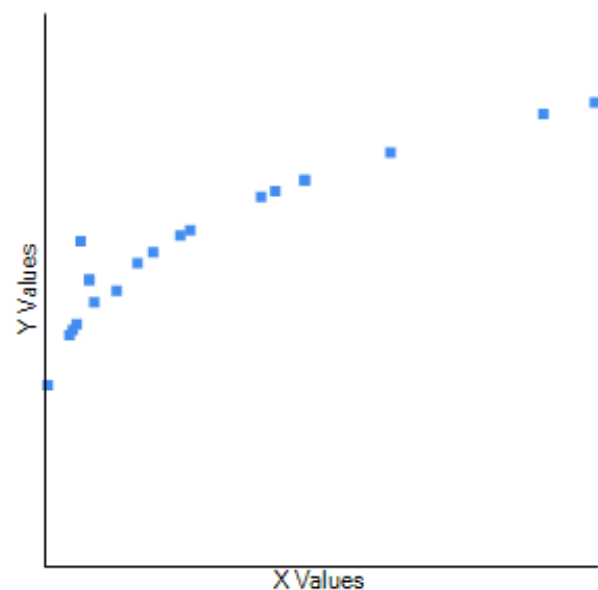


Fig. 1 Second polar moments of area correlated to female width in *Centrobolus* Cook, 1897.

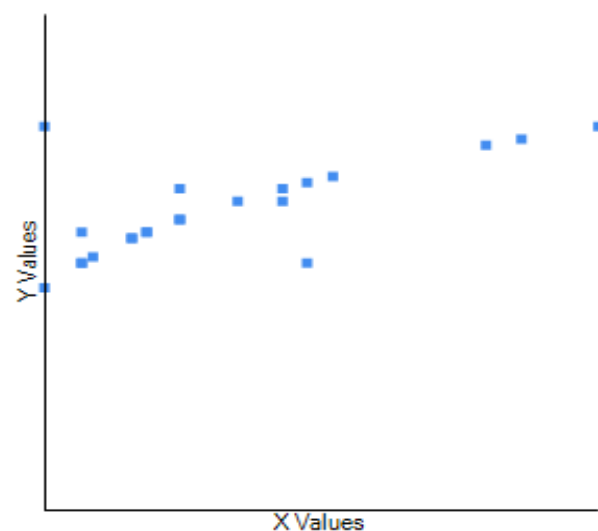


Fig. 2 Second polar moments of area correlated to male width in *Centrobolus* Cook, 1897.

IV. DISCUSSION

The significant differences between males and females in surface area are known in this genus [68]. There is a correlation between second polar moments of area and width in both sexes. This is an addition to one of the many correlated with body size in millipedes.

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APPENDIX 1. Width (mm) followed by second polar moments of area (mm⁴; three significant figures after the decimal) for female *Centrobolus* Cook, 1897.

- 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

- 2035.752
644.1247
488.7841
588.7495

644.1247
3358.579
3771.482
3165.331
766.4985
644.1247
7820.545
186.2840
1658.133
1437.377
2174.900
4970.098
3771.482
833.8440
537.0240
1148.506
766.4985
7101.912

APPENDIX 2. Width (mm) followed by second polar moments of area (mm⁴; three significant figures after the decimal) for male *Centrobolus* Cook, 1897.

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
402.12386
1239.43386

644.12467
402.12386
981.747706
1148.50596
766.498501
1903.39062
644.12467
766.498501
2321.06144
263.833465
1239.43386
766.498501
1148.50596
1335.65692
263.833465
588.749544
443.869501
588.749544
402.12386
2035.75204