

SECOND POLAR MOMENTS OF INERTNESS ARE RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

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Abstract- Highest total hours of sunshine in a month was tested for a correlation with second polar moments of inertness in forest red millipedes *Centrobolus*. Second polar moments of area in females were related to highest total hours of sunshine in a month ($r=-0.5152$, $r^2=0.2654$, $n=22$, $p=0.01418$) and second polar moments of area in males marginally were related to highest total hours of sunshine in a month ($r=-0.371$, $r^2=0.1376$, $n=22$, $p=0.089159$).

Keywords: second polar, 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 [1-297]. 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 highest total hours of sunshine in a month 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 highest total hours of sunshine in a month was generated at <https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php>.

III. RESULTS

Second polar moments of area in females were related to highest total hours of sunshine in a month (Figure 1: $r=-0.5152$, $r^2=0.2654$, $n=22$, $p=0.01418$) and second polar moments of area in males marginally were related to highest total hours of sunshine in a month (Fig. 2: $r=-0.371$, $r^2=0.1376$, $n=22$, $p=0.089159$).

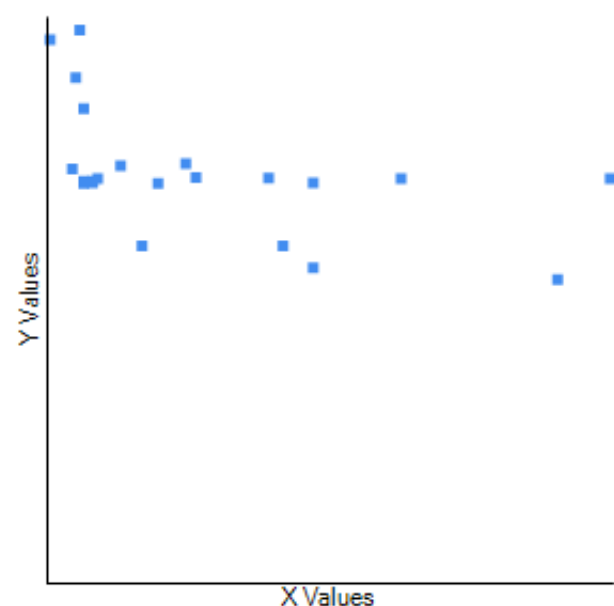


Fig. 1 Second polar moments of area in females correlated to highest total hours of sunshine in a month in *Centrobolus* Cook, 1897.

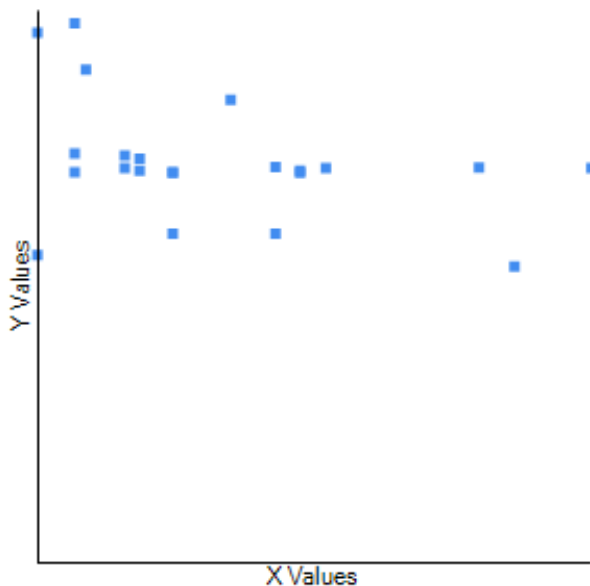


Fig. 2 Second polar moments of area in males marginally correlated to highest total hours of sunshine in a month in *Centrobolus* Cook, 1897.

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 in females and highest total hours of sunshine in a month; marginally in males. This is an addition to one of the many correlated with body size in millipedes.

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APPENDIX 1. Highest total hours of sunshine in a month (h; two significant figures after the decimal) followed by second polar moments of area (mm⁴; three significant figures after the decimal) for female *Centrobolus* Cook, 1897.

259.73

248.89

256.60

342.21

293.68
209.20
247.85
250.86
248.89
247.77
250.72
336.32
247.65
209.20
251.38
250.72
195.55
250.72
312.99
258.55
247.85
188.32
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. Highest total hours of sunshine in a month (h; two significant figures after the decimal) followed by second polar moments of area (mm⁴; three significant figures after the decimal) for male *Centrobolus* Cook, 1897.

259.73
248.89
256.60
342.21
293.68
209.20
247.85
250.86
248.89
247.77
250.72
336.32
247.65
209.20
251.38
250.72
195.55
250.72
312.99
258.55
247.85
188.32
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