

SECOND POLAR MOMENTS OF INERTNESS ARE RELATED TO HOURS OF SUNSHINE THROUGHOUT THE YEAR IN FOREST RED MILLIPEDES *CENTROBOLUS COOK*, 1897

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Abstract- Second polar moments of inertness was tested for a correlation with hours of sunshine throughout the year in red millipedes *Centrobolus*. Second polar moments of inertness in males was related to hours of sunshine throughout the year (Pearson's $r=-0.45910629$, Z score= -2.16279107 , $n=22$, $p=0.01527857$). Second polar moments of inertness in females was marginally related to hours of sunshine throughout the year (Pearson's $r=-0.31063447$, Z score= -1.40028532 , $n=22$, $p=0.080714$). Second polar moments of inertness in both sexes combines was related to hours of sunshine throughout the year (Pearson's $r=-0.27336674$, Z score = -1.79606916 , $n=44$, $p=0.03624171$).

Keywords: polar, Red Millipedes, second.

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 [1-440]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [440]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [439]. These worm-like millipedes have female-biased sexual size dimorphism [57]. Here, second polar moments of inertness was tested for a correlation with hours of sunshine throughout the year in *Centrobolus* Cook, 1897.

II. MATERIALS AND METHODS

A correlation between second polar moments of inertness with hours of sunshine throughout the year was generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1 & 2 respectively).

III. RESULTS

Second polar moments of inertness in males was related to hours of sunshine throughout the year

(Fig. 1: Pearson's $r=-0.45910629$, Z score= -2.16279107 , $n=22$, $p=0.01527857$). Second polar moments of inertness in females was marginally related to hours of sunshine throughout the year (Fig. 2: Pearson's $r=-0.31063447$, Z score= -1.40028532 , $n=22$, $p=0.080714$). Second polar moments of inertness in both sexes combines was related to hours of sunshine throughout the year (Fig. 3: Pearson's $r=-0.27336674$, Z score = -1.79606916 , $n=44$, $p=0.03624171$).

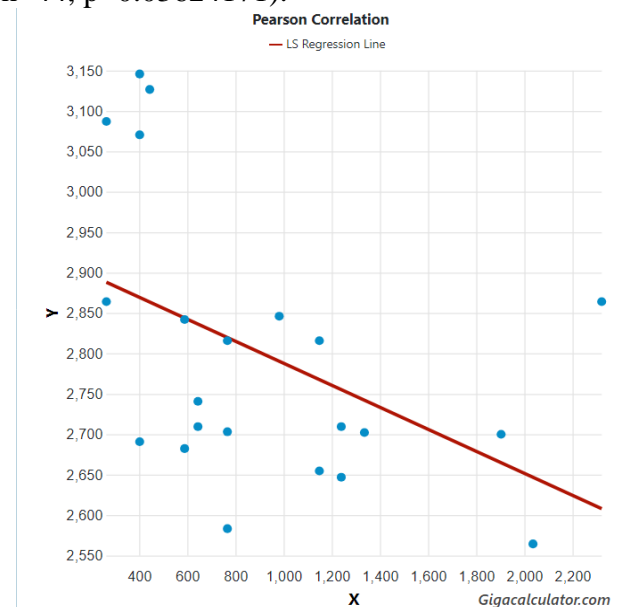


Fig. 1. Correlation between second polar moments of inertness in males (x) and hours of sunshine throughout the year (y) across the range of *Centrobolus* Cook, 1897.

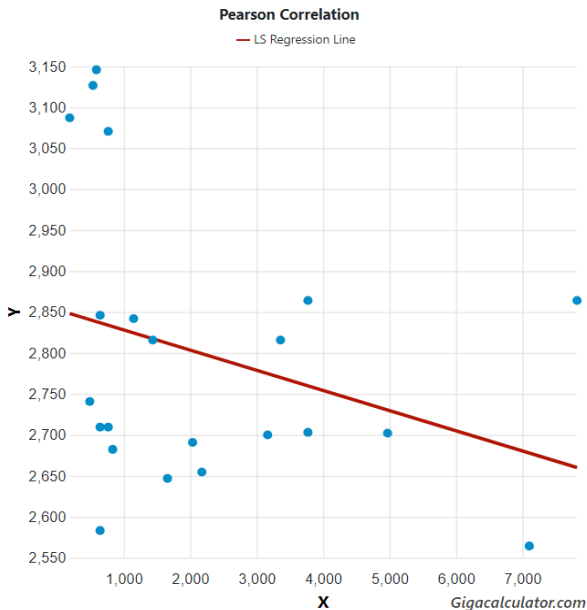


Fig. 2. Correlation between second polar moments of inertness in females (x) and hours of sunshine throughout the year (y) across the range of *Centrobolus* Cook, 1897.

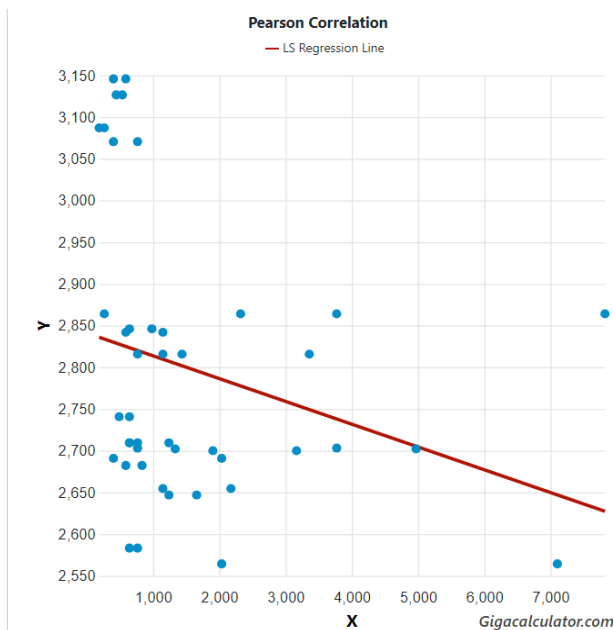


Fig. 3. Correlation between second polar moments of inertness in both sexes combined (x) and hours of sunshine throughout the year (y) across the range of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between (male) second polar moments of inertness and hours of sunshine throughout the year in *Centrobolus*.

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APPENDIX 1. Second polar moments of inertness for males followed by hours of sunshine throughout the year (h) across the range of *Centrobolus* Cook, 1897.

402.12386, 2690.72
1239.43386, 2709.47
644.12467, 2740.74
402.12386, 3145.74
981.747706, 2846.04
1148.50596, 2815.76
766.498501, 2703.13
1903.39062, 2699.92
644.12467, 2709.47
766.498501, 2583.18
2321.06144, 2864.06
263.833465, 3087.04

1239.43386, 2646.85
766.498501, 2815.76
1148.50596, 2654.59
1335.65692, 2702.09
263.833465, 2864.06
588.749544, 2682.25
443.869501, 3126.58
588.749544, 2841.89
402.12386, 3070.45
2035.75204, 2564.32

APPENDIX 2. Second polar moments of inertness for females followed by hours of sunshine throughout the year (h) across the range of *Centrobolus* Cook, 1897.

2035.75204, 2690.72
644.12467, 2709.47
488.784066, 2740.74
588.749544, 3145.74
644.12467, 2846.04
3358.5787, 2815.76
3771.48199, 2703.13
3165.33069, 2699.92
766.498501, 2709.47
644.12467, 2583.18
7820.54505, 2864.06
186.284035, 3087.04
1658.13276, 2646.85
1437.37682, 2815.76
2174.89962, 2654.59
4970.09776, 2702.09
3771.48199, 2864.06
833.844037, 2682.25
537.024006, 3126.58
1148.50596, 2841.89
766.498501, 3070.45
7101.91201, 2564.32.