

SECOND POLAR MOMENTS OF INERTNESS ARE RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

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Abstract- Minimum ocean water temperature was tested for a correlation with second polar moments of inertness in red millipedes *Centrobolus*. Minimum ocean water temperature was related to second polar moments of inertness ($r=-0.48810218$, Z score=2.06649196, $n=9$, $p=0.01939096$). This was mainly due to the correlation with female second polar moments of inertness ($r=0.70467730$, Z score=2.14705423, $n=9$, $p=0.01589442$).

Keywords: ocean, Red Millipedes, temperature.

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, minimum ocean water temperature is correlated with second polar moments of inertness in *Centrobolus* Cook, 1897.

II. MATERIALS AND METHODS

Horizontal tergite width measurements for 9 species of southern African *Centrobolus* were obtained from published material [57]. These were halved to get radii (r). The curved surface areas (mm^2) were calculated based on the equation Surface Area (Curved) = $2 \times \pi \times \text{Radius} \times \text{Height}$. A correlation between minimum ocean water temperature and second polar moments of inertness were generated at <https://www.socscistatistics.com/ests/pearson/default2.aspx> (Appendix 1&2).

III. RESULTS

Minimum ocean water temperature was related to second polar moments of inertness (Fig. 1: $r=-0.48810218$, Z score=2.06649196, $n=9$, $p=0.01939096$). This was mainly due to the correlation with female second polar moments of inertness (Fig. 2: $r=0.70467730$, Z score=2.14705423, $n=9$, $p=0.01589442$).

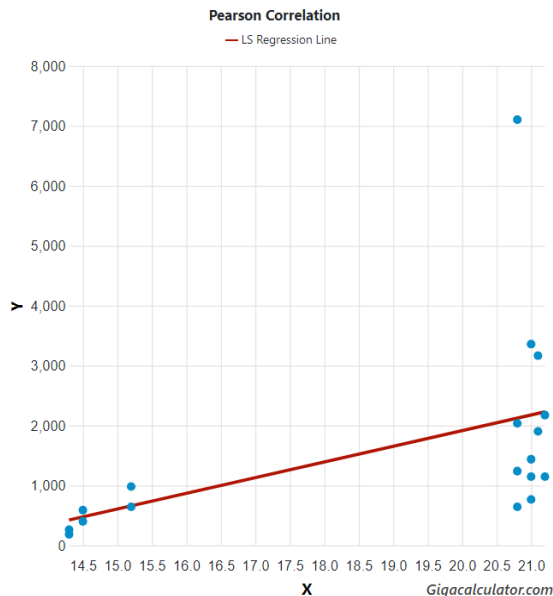


Fig. 1. Correlation between minimum ocean water temperature and second polar moments of inertness in *Centrobolus* Cook, 1897.

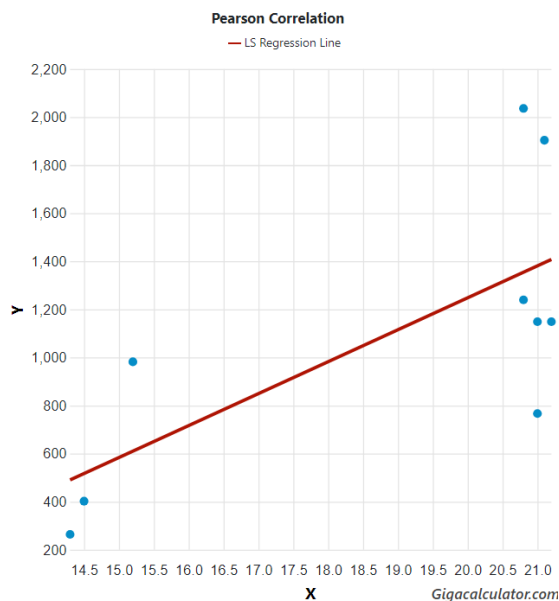


Fig. 2. Correlation between minimum ocean water temperature and female second polar moments of inertness in *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between minimum ocean water temperature and second polar moments of inertness in *Centrobolus*.

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- [393] Cooper Mark. CURVED SURFACE AREA IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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- [396] Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- [397] Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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- [401] Cooper Mark. HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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APPENDIX 1. Minimum ocean temperature (degrees Celsius) followed by second polar moments of inertness in coastal *Centrobolus* Cook, 1897.

20.80, 644.1247
14.50, 588.7495
15.20, 644.1247
21.00, 3358.579
21.10, 3165.331
14.30, 186.2840
21.00, 1437.377
21.20, 2174.900
20.80, 7101.912
20.80, 1239.43386
14.50, 402.12386
15.20, 981.747706
21.00, 1148.50596
21.10, 1903.39062
14.30, 263.833465
21.00, 766.498501
21.20, 1148.50596
20.80, 2035.75204