

MASS IS INVERSELY CORRELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

MARK IAN COOPER

University of Cape Town, South Africa.

Abstract- The mass was tested for an interspecific correlation with minimum temperature in red millipedes *Centrobolus*. The mass was inversely correlated with minimum temperature ($r=0.764$, $r^2=0.5837$, $n=8$, $p=0.027319$) (Pearson's $r=-0.76401785$, Z score= -2.24902954 , $n=8$, $p=0.01225527$).

Keywords: mass, 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 [1-563]. 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, the mass was tested for a correlation with minimum temperature in *Centrobolus* Cook, 1897.

II. MATERIALS AND METHODS

Horizontal tergite width measurements for 3 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. A correlation between the mass with minimum temperature was generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1 & 2 respectively).

III. RESULTS

The mass was correlated with minimum temperature (Fig. 1: $r=0.764$, $r^2=0.5837$, $n=8$,

$p=0.027319$; Pearson's $r=-0.76401785$, Z score= -2.24902954 , $n=8$, $p=0.01225527$).

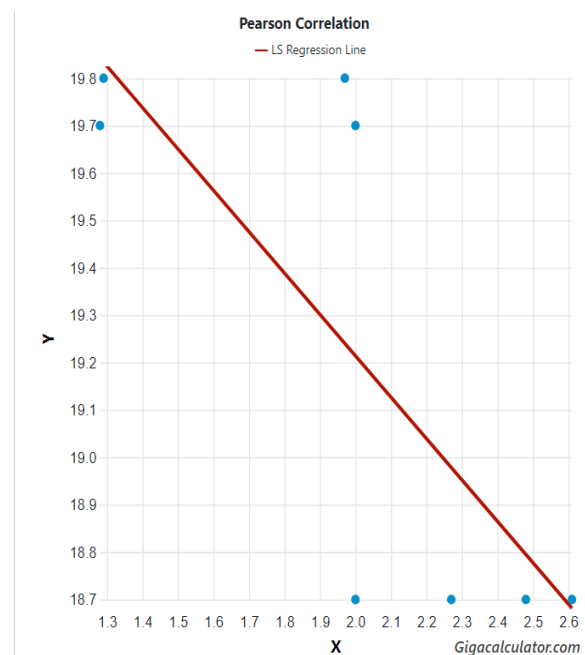


Fig. 1. Correlation between the mass (X) and minimum temperature (Y) across the range of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is an inverse correlation between mass and minimum temperature in *Centrobolus*.

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APPENDIX 1. Mass (g) in *Centrobolus* Cook, 1897.

1.29
1.97
2.48
2.00
2.27
2.61
1.28
2.00

APPENDIX 2. Minimum temperature (degrees Celsius) for three species of *Centrobolus* Cook, 1897.

19.8
18.7
19.7