

HOURS OF SUNSHINE THROUGHOUT THE YEAR IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES *CENTROBOLUS COOK*, 1897

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Abstract- Hours of sunshine throughout the year was tested for a correlation with longitude in red millipedes *Centrobolus*. Hours of sunshine throughout the year was related to longitude ($r=-0.72010029$, Z score= -3.95724057 , $r^2=0.5185$, $n=22$, $p=0.00003793$).

Hours of sunshine throughout the year was related to longitude (Fig. 1: $r=-0.72010029$, Z score= -3.95724057 , $r^2=0.5185$, $n=22$, $p=0.00003793$).

Keywords: longitude, Red Millipedes, sunshine.

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 [1-397]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [399]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [398]. These worm-like millipedes have female-biased sexual size dimorphism [57]. Here, hours of sunshine throughout the year is correlated with longitude 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. A correlation between hours of sunshine throughout the year and longitude was generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1 & 2 respectively).

III. RESULTS

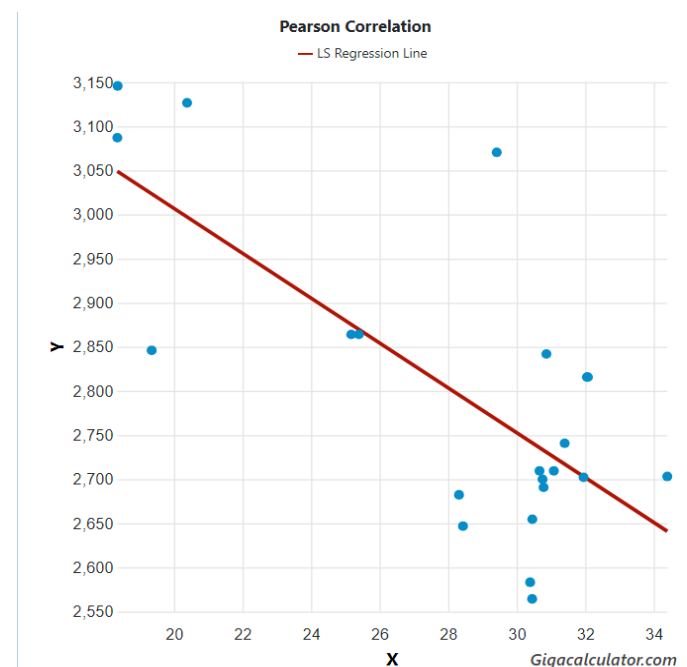


Fig. 1. Correlation between hours of sunshine throughout the year (h) and longitude across the range of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between hours of sunshine throughout the year and longitude.

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APPENDIX 1. Hours of sunshine throughout the year across the range of *Centrobolus* Cook, 1897.

2690.72
2709.47
2740.74
3145.74
2846.04
2815.76
2703.13
2699.92
2709.47
2583.18
2864.06
3087.04
2646.85
2815.76
2654.59
2702.09
2864.06
2682.25
3126.58
2841.89
3070.45
2564.32

APPENDIX 2. Longitude across the range of
Centrobolus Cook, 1897.

30.786
31.084
31.400
18.357
19.350
32.049
34.394
30.754
30.666
30.393
25.173
18.348
28.433
32.078
30.456
31.952
25.396
28.317
20.383
30.867
29.418
30.451