

THE HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IS RELATED TO LONGITUDE 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 longitude in red millipedes *Centrobolus*. Highest total hours of sunshine in a month was related to longitude ($r=-0.71906036$, Z score= -3.94784009 , $r^2=0.5171$, $n=22$, $p=0.00003945$).

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 [1-406]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [408]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [407]. These worm-like millipedes have female-biased sexual size dimorphism [57]. Here, highest total hours of sunshine in a month 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 highest total hours of sunshine in a month and longitude was generated at <https://www.socscistatistics.com/tests/pearson/d>

[efault2.aspx](#) and <https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php> (Appendix 1 & 2 respectively).

III. RESULTS

Highest total hours of sunshine in a month was related to longitude (Fig. 1: $r=-0.71906036$, Z score= -3.94784009 , $r^2=0.5171$, $n=22$, $p=0.00003945$).

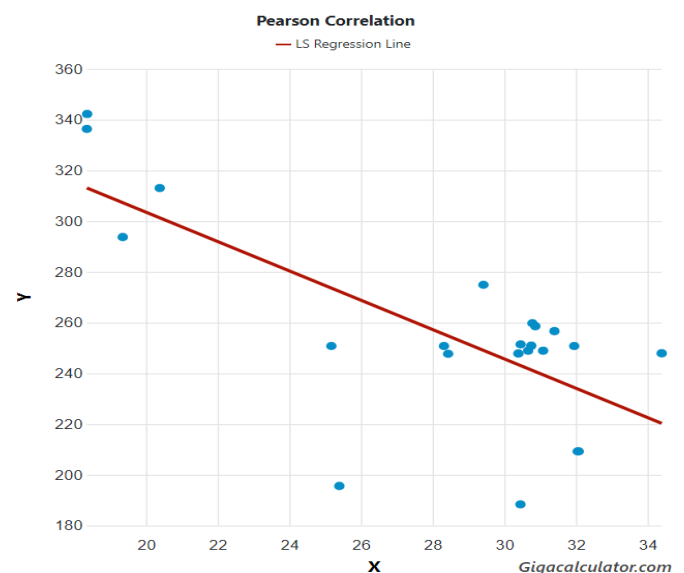


Fig. 1. Correlation between highest total hours of sunshine in a month (h) and longitude across the range of *Centrobolus Cook*, 1897.

IV. DISCUSSION

There is a correlation between highest total hours of sunshine in a month and longitude.

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	18.348
	28.433
	32.078
	30.456
	31.952
	25.396
	28.317
	20.383
APPENDIX 1. Highest total hours of sunshine in a month across the range of <i>Centrobolus</i> Cook, 1897.	30.867
	29.418
	30.451

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

274.85

188.32

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