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

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Abstract- Hours of sunshine throughout the year was tested for a correlation with precipitation in red millipedes Centrobolus. Hours of sunshine throughout the year was correlated with precipitation (r=- 0.7535, $r^2=0.5678$, n=22, p=0.000051).

Keywords: precipitation, 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 [1-297]. 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, the hours of sunshine throughout the year was tested for a correlation with precipitation 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 (mm²) 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 precipitation was generated at https://www.socscistatistics.com/tests/pearson/default2.aspx (Appendix 1 & 2 respectively).

III. RESULTS

Hours of sunshine throughout the year was correlated with precipitation (Fig. 1: r=-0.7535, $r^2=0.5678$, n=22, p=0.000051).

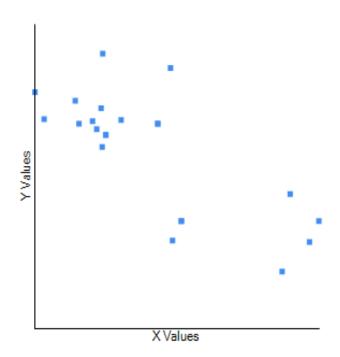


Fig. 1. Correlation between copulation duration (x) and lowest relative humidity (y) across therange of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between hours of sunshine throughout the year with precipitation in *Centrobolus*.

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- 406.Cooper Mark. CURVED SURFACE AREA IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 407. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IN A DAY IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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- 414.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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- 425.Cooper Mark. Male surface area to volume ratio tracks average temperature in pill millipedes *Sphaerotherium* Brandt, 1833. (In Prep.).
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- 435.Cooper Mark. Surface area to volume ratio correlates with the lowest average temperature in pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
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1266

1015

893

966

497

621

1050

944

945

837

497

956

401

1200

1089

265

NUMBER	OF DA	ILY HO	OURS OF	SUNSHI	NE IN A
MONTH	IN	FORES	ST RE	D MIL	LIPEDES
CENTROB	OLUS (COOK, 1	897. Int. j	. eng. sci.	invention
res. dev. 2024; 10(8): (IN PRESS).					

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APPENDIX 1. The hours of sunshine throughout the year (h) in 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. Precipitation (mm) across the range of Centrobolus Cook, 1897.

919

893