

DISTANCE TO THE NEAREST AIRPORT IS RELATED TO SPINE LENGTH, SPINE NUMBER AND STERNITE PROMINENCE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

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Abstract- Distance to the nearest airport was tested for a correlation with spine length, spine number and sternite prominence in red millipedes *Centrobolus*. Distance to the nearest airport was related to spine length when one species was duplicated (Pearson's $r=0.98019606$, Z score= 2.30253509 , $n=4$, $p=0.01065248$) (Pearson's $r=0.96225045$, Z score= 1.97543685 , $n=4$, $p=0.02410923$) (Pearson's $r=0.968496$, Z score= 2.06745523 , $n=4$, $p=0.01934557$). Distance to the nearest airport was related to spine number when one species was duplicated (Kendall's $\tau r=0.77459667$, Z score= 30000 , $n=3+1$, $p=0$) (Kendall's $\tau r=0.77459667$, Z score= 30000 , $n=3+1$, $p=0$) (Kendall's $\tau r=0.77459667$, Z score= 30000 , $n=4$, $p=0$) (Kendall's $\tau r=0.89442719$, Z score= 40000 , $n=3+1$, $p=0$). Distance to the nearest airport was marginally related to sternite prominence (Kendall's $\tau=-0.54772256$, Z score= -1.50 , $n=4$, $p=0.06680723$). Distance to the nearest airport was related to sternite prominence when one species was duplicated (Kendall's $\tau=-0.37796447$, Z score= -4.35285750 , $n=5$, $p=0.00000672$) or (Kendall's $\tau=-0.62994079$, Z score= -2.02860206 , $n=5$, $p=0.02124935$) or (Kendall's $\tau=-0.47140452$, Z score= -40000 , $n=5$, $p=0$) or (Kendall's $\tau=-0.70710678$, Z score= -2.06406275 , $n=5$, $p=0.01950582$).

Keywords: distance, nearest, number, Red Millipedes, spine, sternite.

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 [1-433]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [433]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [432]. These worm-like millipedes have female-biased sexual size dimorphism [57]. Here, distance to the nearest airport is correlated with spine length, spine number, and sternite prominence in *Centrobolus* Cook, 1897.

II. MATERIALS AND METHODS

Horizontal tergite width measurements for four 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 distance to the nearest airport and spine length, spine number, and sternite prominence was generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1-3). Estimates of spine length, spine number, and sternite prominence were made from Scanning Electron Micrographs of four species of *Centrobolus*. Next distance to the nearest airport was obtained from <https://en.climate-data.org/africa/south-africa/kwazulu-natal/mtunzini-772733/>, <https://en.climate-data.org/africa/south-africa/kwazulu-natal/richards-bay-637/>, <https://en.climate-data.org/africa/south-africa/kwazulu-natal/port-shepstone-27283/>. These were correlated in at <https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php> and a screen shot captured of the figure.

III. RESULTS

Distance to the nearest airport was marginally related to spine length when one species was duplicated (Figure 1: Pearson's $r=0.98019606$, Z score= 2.30253509 , $n=4$, $p=0.01065248$) (Figure 2: Pearson's $r=0.96225045$, Z score= 1.97543685 , $n=4$, $p=0.02410923$) (Figure 3: Pearson's $r=0.968496$, Z score= 2.06745523 , $n=4$, $p=0.01934557$).

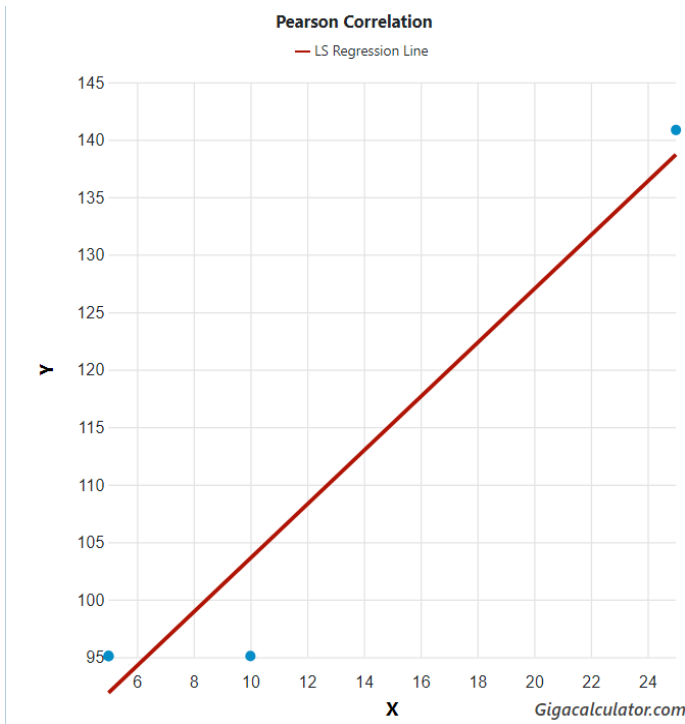


Fig. 1. Correlation between distance to the nearest airport (km) and spine length across a model of *Centrobolus* Cook, 1897 (*C. anulatus* duplicated).

Fig. 2. Correlation between distance to the nearest airport (km) and spine length across a model of *Centrobolus* Cook, 1897 (*C. inscriptus* duplicated).

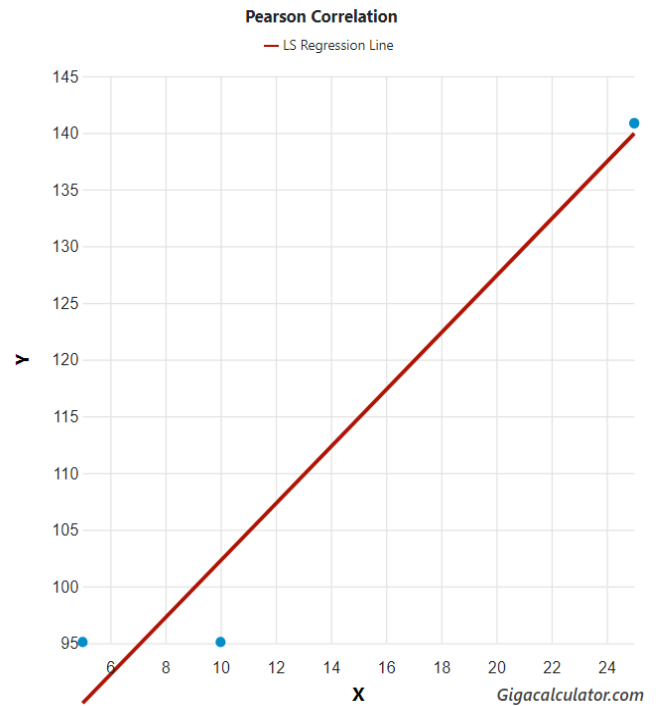
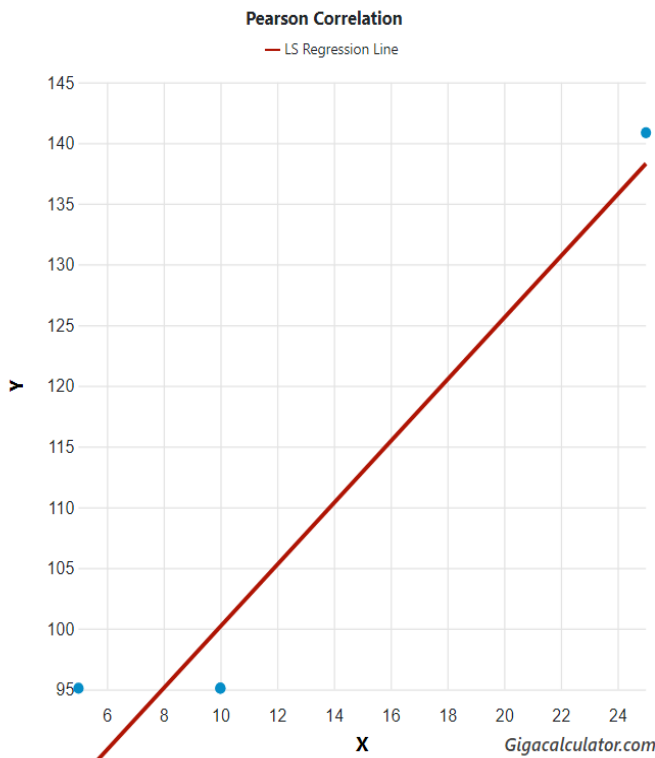


Fig. 3. Correlation between distance to the nearest airport (km) and spine length across a model of *Centrobolus* Cook, 1897 (*C. ruber* duplicated).



Distance to the nearest airport was related to spine number when one species was duplicated (Figure 4: Kendall's τ $r=0.77459667$, Z score=30000, $n=3+1$, $p=0$) (Figure 4: Kendall's τ $r=0.77459667$, Z score=30000, $n=3+1$, $p=0$) (Figure 5: Kendall's τ $r=0.77459667$, Z score=30000, $n=4$, $p=0$) (Figure 6: Kendall's τ $r=0.89442719$, Z score=40000, $n=3+1$, $p=0$).

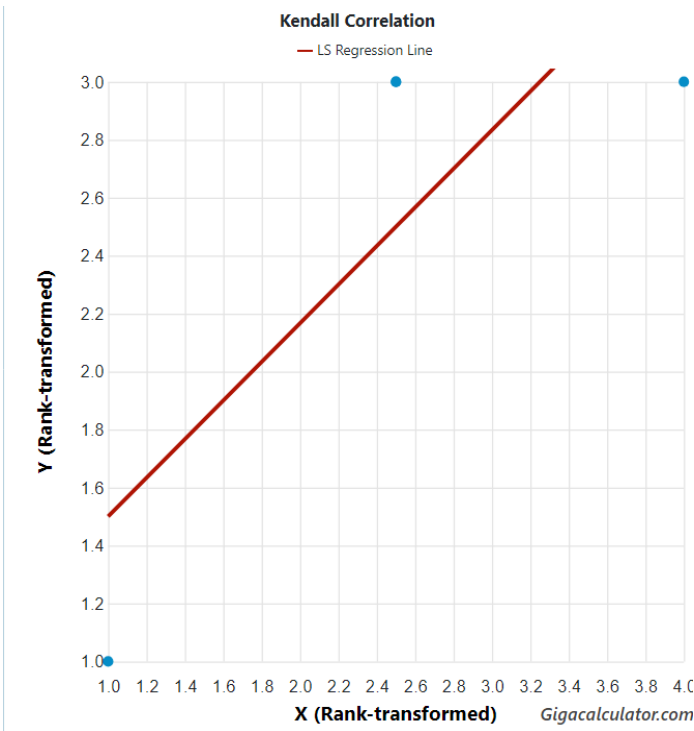


Fig. 4. Correlation between distance to the nearest airport (km) and spine number across a model of *Centrobolus* Cook, 1897 (*C. anulatus* duplicated).

Fig. 5. Correlation between distance to the nearest airport (km) and spine number across a model of *Centrobolus* Cook, 1897 (*C. inscriptus* duplicated).

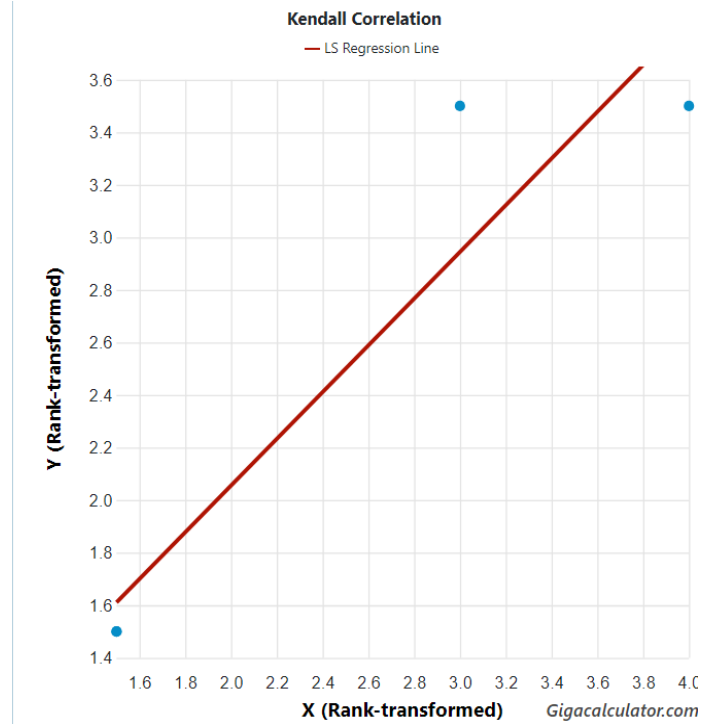
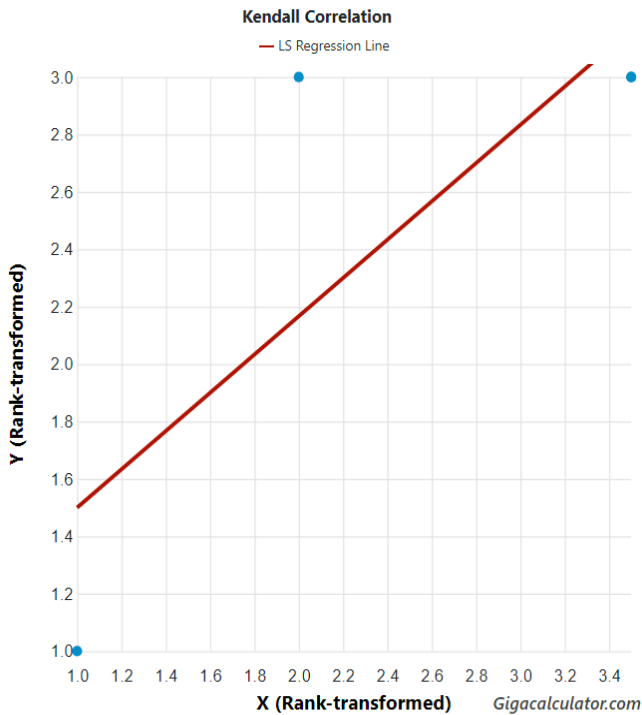


Fig. 6. Correlation between distance to the nearest airport (km) and spine number across a model of *Centrobolus* Cook, 1897 (*C. ruber* duplicated).



Distance to the nearest airport was marginally related to sternite prominence (Fig. 7: Kendall's $\tau = -0.54772256$, Z score = -1.50 , $n = 4$, $p = 0.06680723$). Distance to the nearest airport was related to sternite prominence when one species was duplicated (Fig. 8: Kendall's $\tau = -0.37796447$, Z score = -4.35285750 , $n = 5$, $p = 0.00000672$) or (Fig. 9: Kendall's $\tau = 0.62994079$, Z score = -2.02860206 , $n = 5$, $p = 0.02124935$) or (Fig. 10: Kendall's $\tau = 0.47140452$, Z score = -40000 , $n = 5$, $p = 0$) or (Fig. 11: Kendall's $\tau = -0.70710678$, Z score = -2.06406275 , $n = 5$, $p = 0.01950582$).

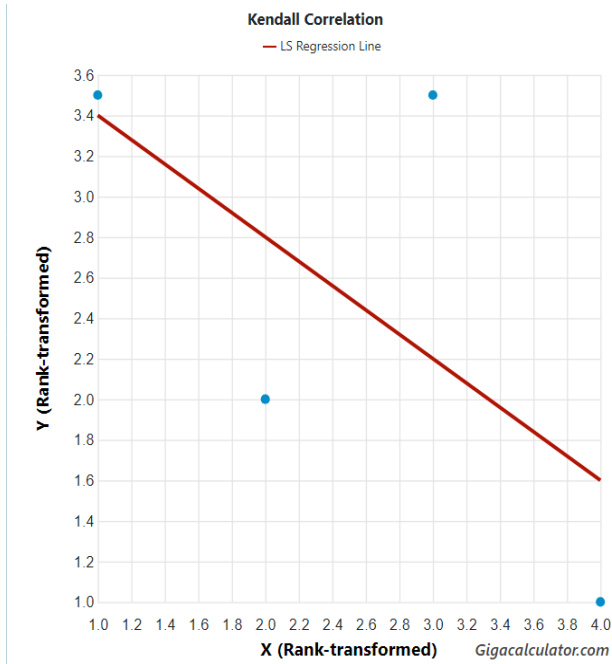


Fig. 7. Correlation between distance to the nearest airport (km) and sternite prominence (%) across a model of *Centrobolus* Cook, 1897.

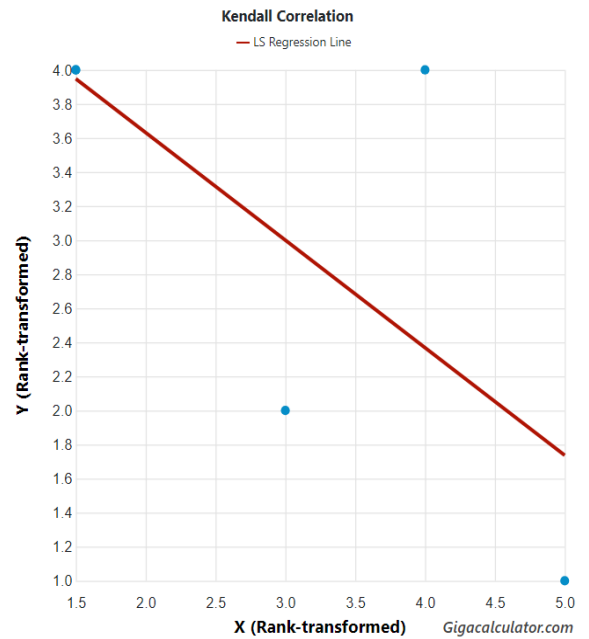


Fig. 9. Correlation between distance to the nearest airport (km) and sternite prominence (%) across a model of *Centrobolus* Cook, 1897 (*C. inscriptus* duplicated).

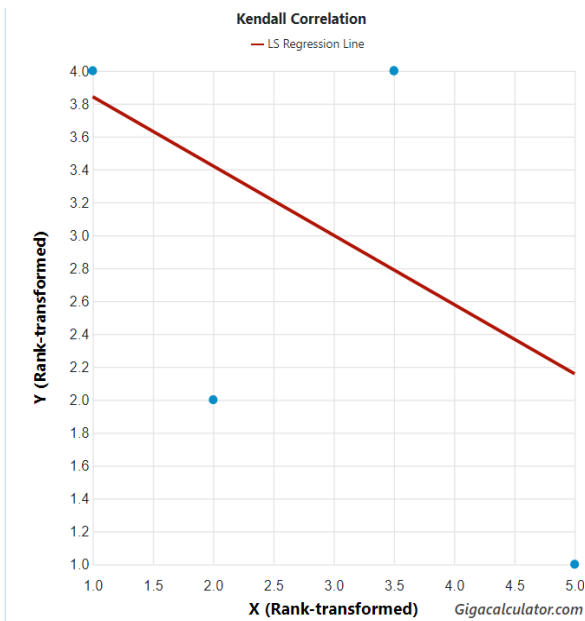


Fig. 8. Correlation between distance to the nearest airport (km) and sternite prominence (%) across a model of *Centrobolus* Cook, 1897 (*C. anulatus* duplicated).

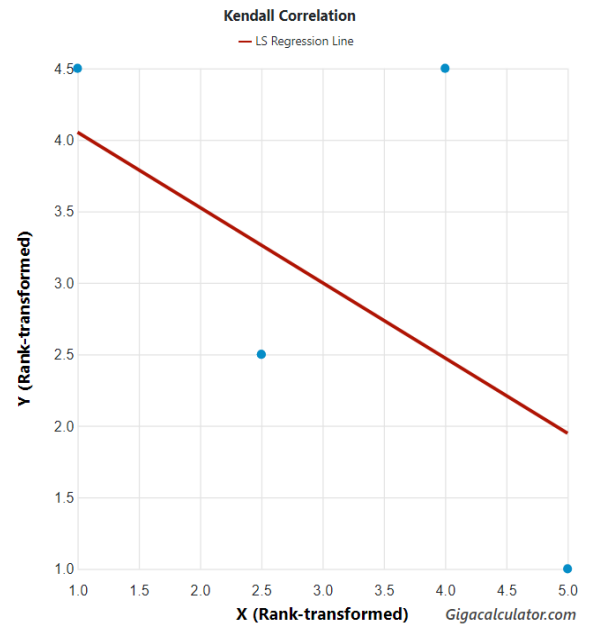


Fig. 10. Correlation between distance to the nearest airport (km) and sternite prominence (%) across a model of *Centrobolus* Cook, 1897 (*C. fulgidus* duplicated).

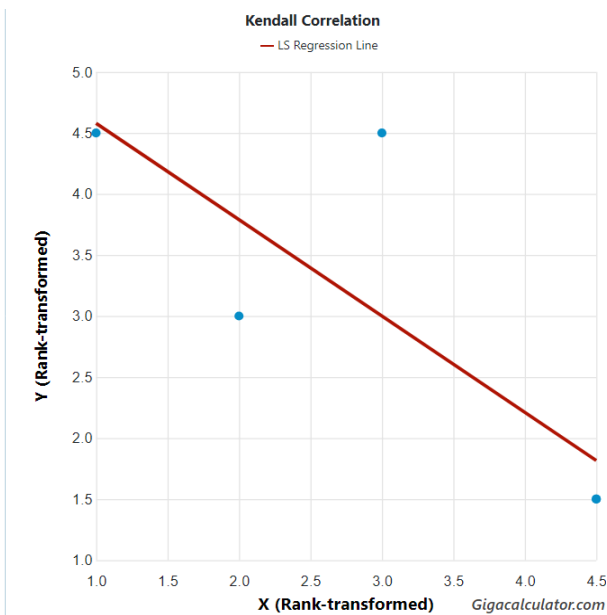


Fig. 11. Correlation between distance to the nearest airport (km) and sternite prominence (%) across a model of *Centrobolus* Cook, 1897 (*C. ruber* duplicated).

IV. DISCUSSION

There is a correlation between distance to the nearest airport and spine length in *Centrobolus*. Although a correlation with three species was not possible and a sample size of four was necessary, each and every time one duplicate was added to the three species the correlation was significant (*C. anulatus* then *C. ruber* then *C. inscriptus*). This highlights the importance of protecting any one of these species. There is a correlation between distance to the nearest airport and spine length and spine number in *Centrobolus*. Although a correlation with three species was not possible between spine number and distance to the nearest airport and a sample size of four was necessary, each and every time one duplicate was added to the three species the correlation was significant (*C. anulatus* + *C. ruber* + *C. inscriptus*). This highlights the importance of protecting all of these species. Distance to the nearest airport was marginally related to sternite prominence. Distance to the nearest airport was related to sternite prominence when one species was duplicated each and every time for the four species studied.

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APPENDIX 1. Distance to the nearest airport (km) preceded with spine number (um) across four *Centrobolus* Cook, 1897.

C. anulatus 21, 95.09 (Mtunzini)

C. inscriptus 10, 95.09 (Mtunzini)

C. ruber 23, 130.49 (Port Shepstone).

APPENDIX 2. Distance to the nearest airport (km) preceded with spine length (um) across three *Centrobolus* Cook, 1897.

C. anulatus 5, 95.09 (Mtunzini)

C. inscriptus 10, 95.09 (Mtunzini)

C. ruber 2.5, 130.49 (Port Shepstone).

APPENDIX 3. Distance to the nearest airport (km) preceded with sternite prominence (%) across four *Centrobolus* Cook, 1897.

30, 95.09

50, 95.09

35, 130.49

25, 140.84.