# SPECIES RICHNESS IS RELATED TO ALTITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897

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Abstract- The altitude was tested for a correlation with species richness in red millipedes Centrobolus. The altitude was correlated with species richness in a comparison of low species richness to high species richness (P-value calculator: Z-score=2.449350, d.f.=20, P-value=0.007156). Altitude at high species richness was lower (368m) than altitude at low species richness (1485.333333m); the difference in altitude of 1117.333333m was suggested to be the cause of differences in species richness.

Keywords: altitude, millipede, species.

# 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 altitude was tested for a correlation with species righness in Controlalus Cook, 1807

species richness in *Centrobolus* Cook, 1897.

# II. MATERIALS AND METHODS

22 species of *Centrobolus* were separated according species richness. A test between the altitude with low versus high species richness (Appendix 1) was generated at

https://www.gigacalculator.com/calculators/p-value-significance-calculator.php.

# III. RESULTS

The altitude was correlated with species richness in a comparison of low species richness to high species richness (P-value calculator: Z<sub>5</sub> score=2.449350, d.f.=20, P-value=0.007156). Altitude at high species richness was lower (368m)

than altitude at low species richness (1485.333333m).

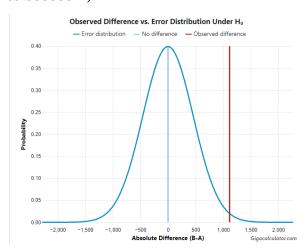


Fig. 1. Altitude was tested with species richness in a comparison of low species richness to high species richness across therange of *Centrobolus* Cook, 1897 (absolute difference in mean altitudes).

# IV. DISCUSSION

There is a difference between altitude at high and low species richness in *Centrobolus*.

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- 269. Cooper Mark. COPULATION DURATION IS RELATED T288. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNLIGHT IS RELATED TO TOTAL HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - IS RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).

- 290. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNLIGHT IS RELATED TO SURFACE AREA IN FOREST MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 291. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNLIGHT IS RELATED TO CURVED SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- IS RELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 293. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNLIGHT RELATED TO TEMPERATURE IN FOREST REDI 1. Cooper Mark. SURFACE AREA IS RELATED TO MEAN OCEAN MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 294. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNLIGHT IS RELATED TO PRECIPITATION IN FOREST REB12. Cooper Mark. MONTH WITH THE HIGHEST NUMBER OF MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 295. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNLIGHT IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 296. Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR IS RELATED TO THE AVERAGE MONTHLY DURATION OF SUNLIGHT IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 297. Cooper Mark. ABUNDANCE IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 298. Cooper Mark. ABUNDANCE IS RELATED TO MAXIMUMI 5. Cooper Mark. TEMPERATURE IS RELATED MEAN OCEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 299. Cooper Mark. ABUNDANCE IS RELATED TO MINIMUM16. Cooper Mark. SEXUAL SIZE DIMORPHISM IS CORRELATED OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- MAXIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 301. Cooper Mark. MATING FREQUENCIES ARE RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (1361). Cooper Mark. MINIMUM OCEAN WATER TEMPERATURE IS Prep.).
- 302. Cooper Mark. MATING FREQUENCIES ARE RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (B)20. Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE Prep.).
- 303. Cooper Mark. LENGTH IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 304. Cooper Mark. WIDTH IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 307. Cooper Mark. CURVED SURFACE AREA IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTA\$24. Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 308. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IN A DAY IS RELATED TO MEAN OCEAN WATER25. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF

- TEMPERATURE NEAR **FOREST** RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 309. Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO MEAN OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In
- 292. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNLIGHT10. Cooper Mark. MAXIMUM TEMPERATURE IS RELATED TO MEAN OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - WATER **TEMPERATURES** IN **COASTAL** REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - RAINY DAYS IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - 313. Cooper Mark. MEAN OCEAN WATER TEMPERATURE IS RELATED TO HIGHEST NUMBER OF DAILY HOURS OF SUNSHINE IN A MONTH IN FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - 314. Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR RELATED TO MEAN OCEAN IS **TEMPERATURE NEAR FOREST** RED **MILLIPEDES** CENTROBOLUS COOK, 1897. (In Prep.).
    - WATER TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
    - TO MEAN OCEAN WATER TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 300. Cooper Mark. MATING FREQUENCIES ARE RELATED TØ17. Cooper Mark. TEMPERATURE IS RELATED MINIMUM OCEAN WATER TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - 318. Cooper Mark. SEXUAL SIZE DIMORPHISM IS CORRELATED TO MINIMUM OCEAN WATER TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
    - RELATED TO HIGHEST NUMBER OF DAILY HOURS OF SUNSHINE IN A MONTH IN FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
    - YEAR IS RELATED TO MINIMUM OCEAN WATER **TEMPERATURE** NEAR **FOREST** REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - 321. Cooper Mark. MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 305. Cooper Mark. VOLUME IS RELATED TO MEAN OCEAB22. Cooper Mark. SURFACE AREA IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 306. Cooper Mark. PRECIPITATION IS RELATED TO MEAN OCEAN23. Cooper Mark. MAXIMUM TEMPERATURE IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - MINIMUM OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - SUNSHINE IN A DAY IS RELATED TO MINIMUM OCEAN

- CENTROBOLUS COOK, 1897. (In Prep.).
- 326. Cooper Mark. HIGHEST RELATIVE HUMIDITY IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL44. Cooper Mark. LONGITUDE IS RELATED TO HIGHEST OCEAN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 327. Cooper Mark. CURVED SURFACE AREA IS RELATED TO45. Cooper Mark. AVERAGE TEMPERATURE IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 328. Cooper Mark. PRECIPITATION IS RELATED TO MINIMUM 46. Cooper Mark. AVERAGE TEMPERATURE VARIATION IS OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 329. Cooper Mark. VOLUME IS RELATED TO MINIMUM OCEAB47. Cooper Mark. CURVED SURFACE AREA IS RELATED WATER TEMPERATURES IN COASTAL FOREST MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 330. Cooper Mark. WIDTH IS RELATED TO MINIMUM OCEAN48. Cooper Mark. AVERAGE TEMPERATURE VARIATION IS WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- WATER TEMPERATURES IN COASTAL FOREST MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- WATER TEMPERATURES IN COASTAL FORESTRED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 333. Cooper Mark. LENGTH IS RELATED TO HIGHEST OCEANS1. Cooper Mark. CURVED SURFACE AREA IS RELATED TO TEMPERATURES IN COASTAL FORESTRED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 334. Cooper Mark. LOWEST RELATIVE HUMIDITY IS RELATED T652. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In
- 336. Cooper Mark. CURVED SURFACE AREA IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (B65. Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO
- 337. Cooper Mark. PRECIPITATION IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FORES356. Cooper Mark. TEMPERATURE IS RELATED TO LONGITUDE IN REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 338. Cooper Mark. MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IS RELATED TO HIGHEST OCEAN WATERST. Cooper Mark. PRECIPITATION IS RELATED TO LONGITUDE IN TEMPERATURES IN COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- OCEAN WATER TEMPERATURES IN COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 341. Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (Di61. Cooper Mark. DISTANCE TO THE NEAREST AIRPORT IS Prep.).
- 342. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IN A DAY IS RELATED TO HIGHEST OCEAS(62. Cooper Mark. SPECIES RICHNESS IS NOT RELATED TO WATER TEMPERATURE NEAR FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).

- WATER TEMPERATURE NEAR FOREST RED MILLIPEDES43. Cooper Mark. LATITUDE IS RELATED TO HIGHEST OCEAN WATER **TEMPERATURES NEAR** COASTAL REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - WATER **TEMPERATURES** NEAR COASTAL REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - AVERAGE TEMPERATURE VARIATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - RELATED TO SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 331. Cooper Mark. LENGTH IS RELATED TO MINIMUM OCEAN49. Cooper Mark. CURVED SURFACE AREA IS RELATED TO SPECIES RICHNESS IN **FOREST** RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 332. Cooper Mark. WIDTH IS RELATED TO HIGHEST OCEANSO. Cooper Mark. CURVED SURFACE AREA IS RELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - SUNSHINE IN A DAY IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 335. Cooper Mark, HIGHEST RELATIVE HUMIDITY IS RELATED T653, Cooper Mark, LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IN A DAY IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - 354. Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
    - LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
    - FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In
    - FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In
- 339. Cooper Mark. SURFACE AREA IS RELATED TO HIGHES358. Cooper Mark. PRECIPITATION IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In
- 340. Cooper Mark. MAXIMUM TEMPERATURE IS RELATED T659. Cooper Mark. HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - 360. Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
    - RELATED TO LATITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
    - DISTANCE TO THE NEAREST AIRPORT IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).

- 363. Cooper Mark. MATING FREQUENCY IS RELATED to DISTANCES3. Cooper Mark. Mean annual temperature varies with the lowest TO THE NEAREST AIRPORT IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 365. Cooper Mark. DISTANCE TO THE NEAREST AIRPORT 1585. Cooper Mark. The driest months varies with the distance to the RELATED TO MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 366. Cooper Mark. STERNITE PROMINENCE IS RELATED TO ABUNDANCE IN CENTROBOLUS COOK, 1897. (In Prep.).
- 367. Cooper Mark. MATING FREQUENCY IS RELATED TO HIGHES387. Cooper Mark. The difference between the driest and wettest months RELATIVE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 368. Cooper Mark. Surface area to volume ratio correlates with the month 88. Cooper Mark. SURFACE AREA IS RELATED TO WIDTH IN with the lowest daily hours of sunshine in pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
- with the most daily hours of sunshine in pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
- temperature in pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
- 371. Cooper Mark. ABUNDANCE IS RELATED TO HIGHEST91. Cooper Mark. SPECIES RICHNESS IS RELATED TO LOWEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 372. Cooper Mark. MONTH WITH THE HIGHEST NUMBER OF92. Cooper RAINY DAYS IS RELATED TO HIGHEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 373. Cooper Mark. LOWEST RELATIVE HUMIDITY IS RELATED TO HIGHEST RELATIVE HUMIDITY IN FOREST MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 374. Cooper Mark. SURFACE AREA-TO-VOLUME RATIO RELATED TO LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IN CENTROBOLUS COOK, 1897. (In Prep.).
- 375. Cooper Mark. FEMALE SURFACE AREA-TO-VOLUME RATIO RELATED TO MINIMUM **TEMPERATURE** CENTROBOLUS COOK, 1897. (In Prep.).
- 376. Cooper Mark. SURFACE AREA-TO-VOLUME RATIO RELATED TO TEMPERATURE IN CENTROBOLUS COOK, 1897. (In Prep.).
- 377. Cooper Mark. SURFACE AREA-TO-VOLUME RATIO IS RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IN CENTROBOLUS COOK, 1897. (In Prep.).
- 378. Cooper Mark. SURFACE AREA-TO-VOLUME RATIO RELATED TO HOURS OF SUNSHINE THROUGHOUT THE YEAR IN CENTROBOLUS COOK, 1897. (In Prep.).
- 379. Cooper Mark. STERNITE PROMINENCE IS RELATED TO LOWEST RELATIVE HUMIDITY IN CENTROBOLUS COOK, 1897. (In Prep.).
- 380. Cooper Mark. Surface area to volume ratio correlates with the lowest average temperature in pill millipedes Sphaerotherium Brandt, 1833.
- 381. Cooper Mark. Male surface area to volume ratio correlates with female surface area to volume ratio in pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
- 382. Cooper Mark. Male surface area to volume ratio correlates with the lowest average temperature in pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).

- average temperature in determining the size of female pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
- 364. Cooper Mark. DISTANCE TO THE NEAREST AIRPORT 1384. Cooper Mark. Mean annual temperature varies with the highest average temperature in determining the size of female pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
  - closest airport across the distribution of pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
  - 386. Cooper Mark. The wettest months varies with the distance to the closest airport across the distribution of pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
    - varies with the distance to the closest airport across the distribution of pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
    - FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 369. Cooper Mark. Surface area to volume ratio correlates with the month 89. Cooper Mark. SURFACE AREA IS RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In
- 370. Cooper Mark. Male surface area to volume ratio tracks average 90. Cooper Mark. SPECIES RICHNESS IS MARGINALLY RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - RELATIVE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - **SPECIES** RICHNESS IS RELATED to **PRECIPITATION** RED **MILLIPEDES** IN FOREST CENTROBOLUS COOK, 1897. (In Prep.).
  - 393. Cooper Mark. SPECIES RICHNESS IS RELATED MAXIMUM **TEMPERATURE** IN **FOREST** RED **MILLIPEDES** CENTROBOLUS COOK, 1897. (In Prep.).
  - 394. Cooper Mark. MOMENTS OF INERTIA ARE RELATED TO WIDTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - 395. Cooper Mark. MOMENTS OF INERTIA ARE RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - 396. Cooper Mark. WIDTH MODELS WITH MATING FREQUENCY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - 397. Cooper Mark. FEMALE WIDTH IS RELATED TO LOWEST NUMBER OF HOURS OF SUNSHINE IN A DAY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - 398. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IN A DAY IS RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - 399. Cooper Mark. WIDTH IS RELATED TO HOURS OF SUNSHINE THROUGHOUT THE YEAR IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - 400. Cooper Mark. LENGTH IS RELATED TO HOURS OF SUNSHINE THROUGHOUT THE YEAR IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - 401. Cooper Mark. WIDTH IS RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - 402. Cooper Mark. LENGTH IS RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).

- WIDTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 405. Cooper Mark. CURVED SURFACE AREA IS RELATED TO SEX25. Cooper Mark. MATING FREQUENCY IS RELATED TO RATIO IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 406. Cooper Mark. COPULATION DURATION IS RELATED T@26. Cooper Mark. MATING FREQUENCY IS RELATED TO CURVED SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 407. Cooper Mark. CURVED SURFACE AREA IS RELATED T@27. Cooper MOMENTS OF INERTIA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 408. Cooper Mark. CURVED SURFACE AREA IS RELATED TO MAS\$28. Cooper IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- TEMPERATURE FOREST IN RED MILLIPEDESCENTROBOLUS COOK, 1897. (In Prep.).
- 410. Cooper Mark. CURVED SURFACE AREA IS RELATED TO SPECIES VOLUME IN FOREST RED CENTROBOLUS COOK, 1897. (In Prep.).
- 411. Cooper Mark. CURVED SURFACE AREA IS RELATED TO IN **FOREST** SURFACE AREA RED CENTROBOLUS COOK, 1897. (In Prep.).
- 412. Cooper Mark. CURVED SURFACE AREA IS RELATED TO LOWEST HOURS OF SUNSHINE IN A DAY IN FOREST RE#32. Cooper Mark. PRECIPITATION IS RELATED TO TEMPERATURE MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 413. Cooper Mark. CURVED SURFACE AREA IS RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE THROUGHOUT 433. Cooper Mark. HIGHEST TOTAL HOURS OF SUNSHINE MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 414. Cooper Mark. CURVED SURFACE AREA IS RELATED TO HOURS OF SUNSHINE THROUGHOUT THE YEAR IN FORES434. Cooper Mark. HIGHEST TOTAL HOURS OF SUNSHINE RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 415. Cooper Mark. VOLUME IS CORRELATED TO MINIMUM TEMPERATURE IN **FOREST** RED **MILLIPEDES** CENTROBOLUS COOK, 1897. (In Prep.).
- 416. Cooper Mark. MASS IS CORRELATED TO MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 417. Cooper Mark. MASS IS CORRELATED TO LOWEST RELATIV#36. Cooper Mark. HIGHEST TOTAL HOURS OF SUNSHINE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 418. Cooper Mark. MASS IS CORRELATED TO MINIMUM **TEMPERATURE** ΙN **FOREST RED** CENTROBOLUS COOK, 1897. (In Prep.).
- 419. Cooper Mark. MASS IS CORRELATED TO PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 420. Cooper Mark. COPULATION DURATION IS MODELLED TO **PRECIPITATION** IN FOREST RED **MILLIPEDES** CENTROBOLUS COOK, 1897. (In Prep.).
- 421. Cooper Mark. COPULATION DURATION IS MODELLED TO AVERAGE TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 422. Cooper Mark. COPULATION DURATION IS MODELLED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).

- 403. Cooper Mark. CURVED SURFACE AREA IS RELATED T@23. Cooper Mark. MATING FREQUENCY IS RELATED TO HOURS OF SUNSHINE THROUGHOUT THE YEAR IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
- 404. Cooper Mark. CURVED SURFACE AREA IS RELATED TO24. Cooper Mark. MATING FREQUENCY IS RELATED TO LOWEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - MAXIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - **FREQUENCY** IS MATING **RELATED** Mark. PRECIPITATION INFOREST RED **MILLIPEDES** CENTROBOLUS COOK, 1897. (In Prep.).
  - MATING **FREQUENCY** IS **RELATED** Mark. **PRECIPITATION INFOREST MILLIPEDES RED** CENTROBOLUS COOK, 1897. (In Prep.).
- 409. Cooper Mark. CURVED SURFACE AREA IS RELATED T@29. Cooper Mark. MATING FREQUENCY IS RELATED HIGHEST TOTAL HOURS OF SUNSHINE THROUGHOUT A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - MILLIPEDE \$30. Cooper Mark. TEMPERATURE IS RELATED MINIMUM TEMPERATURE IN **FOREST RED MILLIPEDES** CENTROBOLUS COOK, 1897. (In Prep.).
  - RELATED MAXIMUM MILLIPEDE \$31. Cooper Mark. TEMPERATURE IS TEMPERATURE IN **FOREST RED MILLIPEDES** CENTROBOLUS COOK, 1897. (In Prep.).
    - IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
    - THROUGHOUT A MONTH ARE RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
    - THROUGHOUT A MONTH ARE RELATED TO PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. In Prep.).
    - 435. Cooper Mark. HIGHEST TOTAL HOURS OF SUNSHINE THROUGHOUT A MONTH ARE RELATED TO SPECIES VOLUME IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
      - THROUGHOUT A MONTH ARE RELATED TO MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
  - MILLIPEDE \$37. Cooper Mark. COPULATION DURATION IS RELATED TO MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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**APPENDIX 1**. Altitude across the range of *Centrobolus* Cook, 1897 (low indicates low species richness)

646 (low)

38

990

178

34 9

1863 (low)

48

312

596

252

240 206

9

38

65

76

509

5

1947 (low)

3377

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