

# CURVED SURFACE AREA IS RELATED AVERAGE TEMPERATURE VARIATION IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

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**Abstract-** Average temperature variation was tested for a correlation with curved surface areas in red millipedes *Centrobolus*. Average temperature variation was related to curved surface areas ( $r=-0.3489$ ,  $r^2=0.1217$ ,  $n=44$ ,  $p=0.02039$ ).

**Keywords:** area, average, curved, Red Millipedes, surface, temperature.

## I. INTRODUCTION

Red millipedes are found in the southern African subregion with northern limits on the east coast being about  $-17^\circ$  latitude S and southern limits being  $-35^\circ$  latitude S. They are well represented in the littoral forests of the eastern half of the subcontinent [1-594]. 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, average temperature variation is correlated with curved surface areas 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 curved surface areas ( $\text{mm}^2$ ) were calculated based on the equation  $\text{Surface Area (Curved)} = 2 \times \pi \times \text{Radius} \times \text{Height}$ . A correlation between average temperature variation and curved surface areas were generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1-3).

## III. RESULTS

Average temperature variation was related to curved surface areas (Fig. 1:  $r=-0.3489$ ,  $r^2=0.1217$ ,  $n=44$ ,  $p=0.02039$ ).

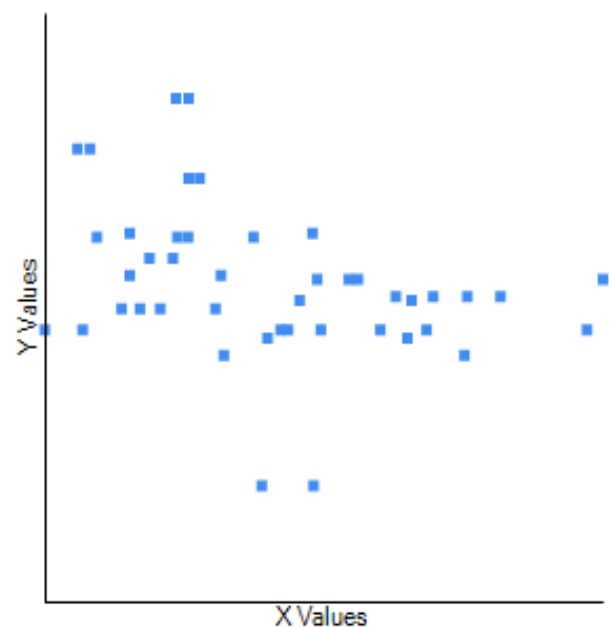


Fig. 1. Correlation between average temperature variation (degrees Celsius) and curved surface area in females in *Centrobolus* Cook, 1897.

## IV. DISCUSSION

There is a correlation between average temperature variation and curved surface areas in *Centrobolus*.

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355. Cooper Mark. MATING FREQUENCIES ARE RELATED TO MAXIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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358. Cooper Mark. LENGTH IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
359. Cooper Mark. WIDTH IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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361. Cooper Mark. PRECIPITATION IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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368. Cooper Mark. MEAN OCEAN WATER TEMPERATURE IS RELATED TO HIGHEST NUMBER OF DAILY HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).



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370. Cooper Mark. TEMPERATURE IS RELATED MEAN OCEAN WATER TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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381. Cooper Mark. HIGHEST RELATIVE HUMIDITY IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
382. Cooper Mark. CURVED SURFACE AREA IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
383. Cooper Mark. PRECIPITATION IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
384. Cooper Mark. VOLUME IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
385. Cooper Mark. WIDTH IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
386. Cooper Mark. LENGTH IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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394. Cooper Mark. SURFACE AREA IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
395. Cooper Mark. MAXIMUM TEMPERATURE IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).

396. Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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398. Cooper Mark. LATITUDE IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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404. Cooper Mark. CURVED SURFACE AREA IS RELATED TO SPECIES RICHNESS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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406. Cooper Mark. CURVED SURFACE AREA IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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413. Cooper Mark. PRECIPITATION IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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416. Cooper Mark. DISTANCE TO THE NEAREST AIRPORT IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
417. Cooper Mark. SPECIES RICHNESS IS NOT RELATED TO DISTANCE TO THE NEAREST AIRPORT IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
418. Cooper Mark. MATING FREQUENCY IS RELATED TO DISTANCE TO THE NEAREST AIRPORT IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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421. Cooper Mark. STERNITE PROMINENCE IS RELATED TO ABUNDANCE IN CENTROBOLUS COOK, 1897. (In Prep.).
422. Cooper Mark. MATING FREQUENCY IS RELATED TO HIGHEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
423. Cooper Mark. Surface area to volume ratio correlates with the month with the lowest daily hours of sunshine in pill millipedes *Sphaerotherium* Brandt, 1833. (In Prep.).
424. Cooper Mark. Surface area to volume ratio correlates with the month with the most daily hours of sunshine in pill millipedes *Sphaerotherium* Brandt, 1833. (In Prep.).
425. Cooper Mark. Male surface area to volume ratio tracks average temperature in pill millipedes *Sphaerotherium* Brandt, 1833. (In Prep.).
426. Cooper Mark. ABUNDANCE IS RELATED TO HIGHEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
427. Cooper Mark. MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IS RELATED TO HIGHEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
428. Cooper Mark. LOWEST RELATIVE HUMIDITY IS RELATED TO HIGHEST RELATIVE HUMIDITY IN

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429. Cooper Mark. SURFACE AREA-TO-VOLUME RATIO IS RELATED TO LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IN CENTROBOLUS COOK, 1897. (In Prep.).
430. Cooper Mark. FEMALE SURFACE AREA-TO-VOLUME RATIO IS RELATED TO MINIMUM TEMPERATURE IN CENTROBOLUS COOK, 1897. (In Prep.).
431. Cooper Mark. SURFACE AREA-TO-VOLUME RATIO IS RELATED TO TEMPERATURE IN CENTROBOLUS COOK, 1897. (In Prep.).
432. Cooper Mark. SURFACE AREA-TO-VOLUME RATIO IS RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IN CENTROBOLUS COOK, 1897. (In Prep.).
433. Cooper Mark. SURFACE AREA-TO-VOLUME RATIO IS RELATED TO HOURS OF SUNSHINE THROUGHOUT THE YEAR IN CENTROBOLUS COOK, 1897. (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.).
436. Cooper Mark. Male surface area to volume ratio correlates with female surface area to volume ratio in pill millipedes *Sphaerotherium* Brandt, 1833. (In Prep.).
437. Cooper Mark. Male surface area to volume ratio correlates with the lowest average temperature in pill millipedes *Sphaerotherium* Brandt, 1833. (In Prep.).
438. Cooper Mark. Mean annual temperature varies with the lowest average temperature in determining the size of female pill millipedes *Sphaerotherium* Brandt, 1833. (In Prep.).
439. Cooper Mark. Mean annual temperature varies with the highest average temperature in determining the size of female pill millipedes *Sphaerotherium* Brandt, 1833. (In Prep.).
440. Cooper Mark. The driest months varies with the distance to the closest airport across the distribution of pill millipedes *Sphaerotherium* Brandt, 1833. (In Prep.).
441. Cooper Mark. The wettest months varies with the distance to the closest airport across the distribution of pill millipedes *Sphaerotherium* Brandt, 1833. (In Prep.).
442. Cooper Mark. The difference between the driest and wettest months varies with the distance to the closest airport across the distribution of pill millipedes *Sphaerotherium* Brandt, 1833. (In Prep.).
443. Cooper Mark. SURFACE AREA IS RELATED TO WIDTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
444. Cooper Mark. SURFACE AREA IS RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
445. Cooper Mark. SPECIES RICHNESS IS marginally RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
446. Cooper Mark. SPECIES RICHNESS IS RELATED TO LOWEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
447. Cooper Mark. SPECIES RICHNESS IS RELATED TO PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
448. Cooper Mark. SPECIES RICHNESS IS RELATED TO MAXIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
449. Cooper Mark. MOMENTS OF INERTIA ARE RELATED TO WIDTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
450. Cooper Mark. MOMENTS OF INERTIA ARE RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
451. Cooper Mark. WIDTH MODELS WITH MATING FREQUENCY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
452. 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.).
453. 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.).
454. Cooper Mark. WIDTH IS RELATED TO HOURS OF SUNSHINE THROUGHOUT THE YEAR IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
455. Cooper Mark. LENGTH IS RELATED TO HOURS OF SUNSHINE THROUGHOUT THE YEAR IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
456. Cooper Mark. WIDTH IS RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
457. Cooper Mark. LENGTH IS RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
458. Cooper Mark. VOLUME IS CORRELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
459. Cooper Mark. MASS IS CORRELATED TO MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
460. Cooper Mark. MASS IS CORRELATED TO LOWEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).

461. Cooper Mark. MASS IS CORRELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
462. Cooper Mark. MASS IS CORRELATED TO PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
463. Cooper Mark. COPULATION DURATION IS MODELLED TO PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
464. Cooper Mark. COPULATION DURATION IS MODELLED TO AVERAGE TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
465. Cooper Mark. COPULATION DURATION IS MODELLED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
466. Cooper Mark. MATING FREQUENCY IS RELATED TO HOURS OF SUNSHINE THROUGHOUT THE YEAR IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
467. Cooper Mark. MATING FREQUENCY IS RELATED TO LOWEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
468. Cooper Mark. MATING FREQUENCY IS RELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
469. Cooper Mark. MATING FREQUENCY IS RELATED TO MAXIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
470. Cooper Mark. MATING FREQUENCY IS RELATED TO PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
471. Cooper Mark. MATING FREQUENCY IS RELATED TO PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
472. Cooper Mark. MATING FREQUENCY IS RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE THROUGHOUT A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
473. Cooper Mark. TEMPERATURE IS RELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
474. Cooper Mark. TEMPERATURE IS RELATED TO MAXIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
475. Cooper Mark. PRECIPITATION IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
476. Cooper Mark. HIGHEST TOTAL HOURS OF SUNSHINE THROUGHOUT A MONTH ARE RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
477. Cooper Mark. HIGHEST TOTAL HOURS OF SUNSHINE THROUGHOUT A MONTH ARE RELATED TO PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
478. Cooper Mark. HIGHEST TOTAL HOURS OF SUNSHINE THROUGHOUT A MONTH ARE RELATED TO SPECIES VOLUME IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
479. Cooper Mark. HIGHEST TOTAL HOURS OF SUNSHINE THROUGHOUT A MONTH ARE RELATED TO MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
480. Cooper Mark. COPULATION DURATION IS RELATED TO MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
481. Cooper Mark. MOMENTS OF INERTIA ARE RELATED TO MAXIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
482. Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR ARE RELATED TO SPECIES VOLUME IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
483. Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
484. Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR IS RELATED TO SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
485. Cooper Mark. COPULATION DURATION IS RELATED TO LOWEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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487. Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR IS RELATED TO MOMENTS OF INERTIA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
488. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IS RELATED TO MOMENTS OF INERTIA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
489. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IS RELATED TO MASS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
490. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
491. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).



492. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
493. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IS RELATED TO SPECIES VOLUME IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
494. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IS RELATED TO MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
495. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IS RELATED TO SURFACE AREA IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
496. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IS RELATED PRECIPITATION IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
497. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IS RELATED MAXIMUM TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
498. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IN A DAY IS RELATED TO HIGHEST NUMBER OF DAILY HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
499. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IS RELATED TO TOTAL HOURS OF SUNSHINE IN A YEAR IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
500. Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR IS RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
501. Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR IS RELATED TO PRECIPITATION IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
502. Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR IS RELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
503. Cooper Mark. LOWEST RELATIVE HUMIDITY IS RELATED TO MAXIMUM TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
504. Cooper Mark. LOWEST RELATIVE HUMIDITY IS RELATED TO PRECIPITATION IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
505. Cooper Mark. MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IS RELATED TO PRECIPITATION IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
506. Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO TOTAL HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
507. Cooper Mark. MAXIMUM TEMPERATURE IS RELATED TO TOTAL HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
508. Cooper Mark. PRECIPITATION IS RELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
509. Cooper Mark. PRECIPITATION IS RELATED TO MAXIMUM TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
510. Cooper Mark. SURFACE AREA IS NOT RELATED TO MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
511. Cooper Mark. SURFACE AREA IS NOT RELATED TO PRECIPITATION IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
512. Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO MAXIMUM TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
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514. Cooper Mark. SURFACE AREA IS NOT RELATED TO MAXIMUM TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
515. Cooper Mark. SURFACE AREA IS RELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
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**APPENDIX 1.** Average temperature variation (degrees Celsius) across the range of *Centrobolus* Cook, 1897.

8.8  
7.3  
8.7  
7.0  
2.8  
6.5  
5.9  
7.3  
7.0  
8.7  
7.7  
6.5  
7.8  
6.5  
7.2  
6.3  
7.7  
10.1  
10.8

8.2  
12.0  
6.5

**APPENDIX 2.** Curved surface area (mm<sup>2</sup>) in male *Centrobolus* Cook, 1897.

980.177  
2297.861  
1215.796  
1030.442  
1633.628  
1764.318  
1447.018  
2483.743  
1130.973  
1269.832  
2064.655  
746.442  
980.177  
1927.681  
1822.124  
1662.531  
1908.832  
1271.717  
721.31  
1078.195  
1272.345  
2450.442

**APPENDIX 3.** Curved surface area (mm<sup>2</sup>) in female *Centrobolus* Cook, 1897.

1884.956  
2817.38  
818.071  
939.965  
1890.61  
2221.734  
2638.938  
2652.133  
1404.92  
1594.044  
3325.062  
559.832  
1432.566  
1727.876  
2376.301  
2356.194  
2111.15

1327.009  
783.513  
1193.805  
1208.885  
3245.894