

WIDTH IS RELATED HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH 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 width in forest red millipedes *Centrobolus*. Width in females was related to highest total hours of sunshine in a month ($r=-0.6554$, $r^2=0.4295$, $n=22$, $p=0.000939$) and width in males marginally was related to highest total hours of sunshine in a month ($r=-0.665$, $r^2=0.4422$, $n=22$, $p=0.000734$).

Keywords: SSD, Red Millipedes, width.

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 [1-594]. 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, width is correlated with highest total hours of sunshine in a month 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 (Appendix 1 & 2 respectively). A correlation between width with highest total hours of sunshine in a month was generated at <https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php>.

III. RESULTS

Width in females were related to highest total hours of sunshine in a month (Fig. 1: $r=-0.6554$, $r^2=0.4295$, $n=22$, $p=0.000939$) and width in males marginally were related to highest total hours of sunshine in a month (Fig. 2: $r=-0.665$, $r^2=0.4422$, $n=22$, $p=0.000734$).

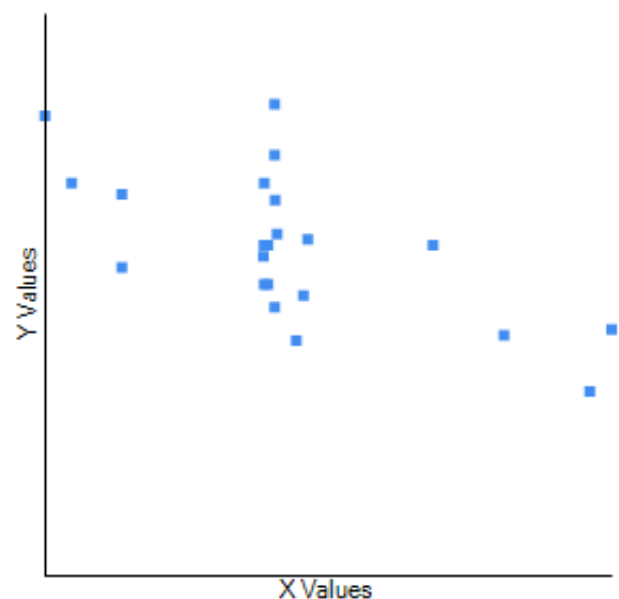


Fig. 1 Width in females correlated to highest total hours of sunshine in a month in *Centrobolus Cook*, 1897.

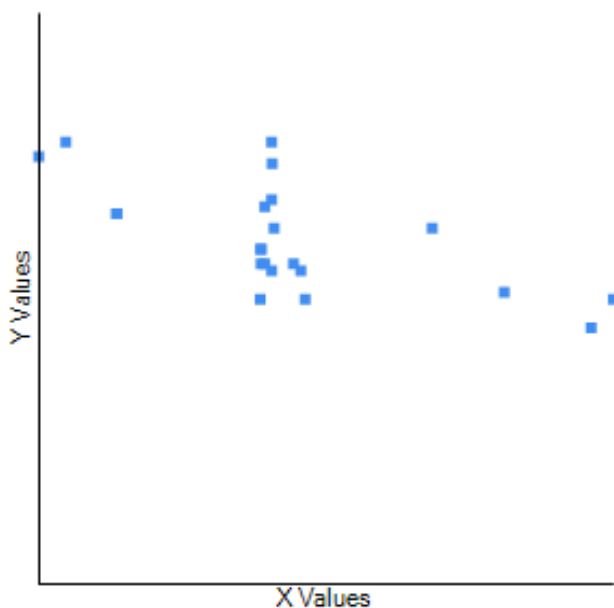


Fig. 2 Width in males marginally correlated to highest total hours of sunshine in a month in *Centrobolus* Cook, 1897.

IV. DISCUSSION

The significant differences between males and females in surface area are known in this genus [68]. There is a correlation between width and highest total hours of sunshine in a month. This is an addition to one of the many correlated with body size in millipedes.

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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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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 FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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.).
434. Cooper Mark. STERNITE PROMINENCE IS RELATED TO LOWEST RELATIVE HUMIDITY IN CENTROBOLUS COOK, 1897. (In Prep.).
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.).
486. Cooper Mark. LOWEST RELATIVE HUMIDITY IS RELATED TO MOMENTS OF INERTIA IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
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.).
513. Cooper Mark. SURFACE AREA IS RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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515. Cooper Mark. SURFACE AREA IS RELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
516. Cooper, M. I. AIR PRESSURE IS NOT RELATED TO SPECIES RICHNESS IN SPHAEROTHERIIDAE BRANDT, 1833. Int. j. eng. sci. invention res. dev. 2024; 10(7): (submitted).
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APPENDIX 1. Highest total hours of sunshine in a month (h; two significant figures after the decimal) followed by width (mm) for female *Centrobolus* Cook, 1897.

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
247.85
188.32
6.0
5.9
4.2
4.4
5.9
6.8
7.0
6.7
5.2
5.9
8.4
3.3
5.7
5.5
6.1
7.5
7.0
4.8

4.3	6.2
5.0	4.4
5.2	4.1
8.2	4.4
APPENDIX 2. Highest total hours of sunshine in	4.5
a month (h; two significant figures after the	6.0
decimal) followed by width (mm) for male	
<i>Centrobolus</i> Cook, 1897.	
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	
247.85	
188.32	
4.0	
5.3	
4.5	
4.0	
5.0	
5.2	
4.7	
5.9	
4.5	
4.7	
6.2	
3.6	
4.0	
5.2	
5.0	
5.4	