

FEMALE SECOND POLAR MOMENTS OF INERTNESS ARE RELATED TO MAXIMUM PRECIPITATION IN FOREST RED MILLIPEDES *CENTROBOLUS COOK*, 1897

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Abstract- Maximum precipitation was tested for a correlation with second polar moments of inertness in forest red millipedes *Centrobolus*. Maximum precipitation was related to female second polar moments of inertness ($r=0.44369747$, Z score= 2.07843312 , $n=22$, $p=0.01883468$) and second polar moments of area in males were not related to maximum precipitation ($r=-0.117$, $r^2=0.0137$, $n=22$, $p=0.604087$).

Keywords: precipitation, SSD, Red Millipedes.

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, second polar moments of area are correlated with maximum 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 (mm^2) were calculated based on the equation $2 \cdot \pi \cdot r \cdot (r + h)$ for males and females. A correlation between second polar moments of area with maximum precipitation (Appendix 1 & 2) was generated at <https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php> and <https://www.socscistatistics.com/tests/pearson/default2.aspx>.

III. RESULTS

Maximum precipitation was related to female second polar moments of inertness (Fig. 1: $r=0.44369747$, Z score= 2.07843312 , $n=22$, $p=0.01883468$) and second polar moments of area in males were not related to maximum precipitation ($r=-0.117$, $r^2=0.0137$, $n=22$, $p=0.604087$).

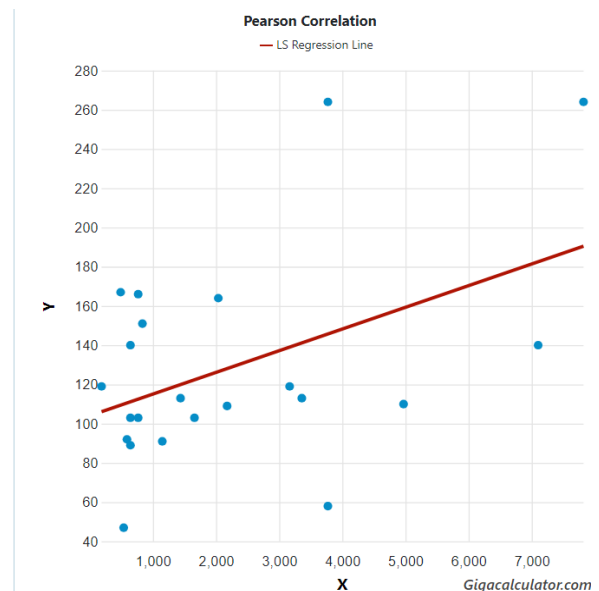


Fig. 1 Second polar moments of area in females correlated to minimum precipitation in *Centrobolus* Cook, 1897.

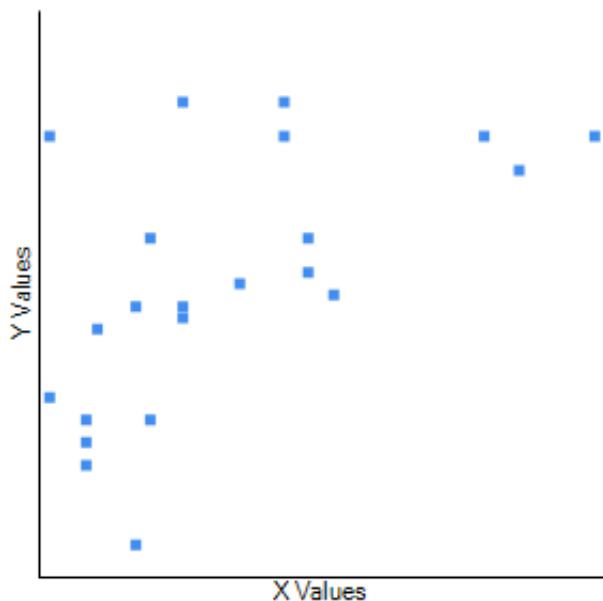


Fig. 2 Second polar moments of area in males correlated to minimum precipitation in *Centrobolus* Cook, 1897.

IV. DISCUSSION

The significant differences between males and females in surface area are known in this genus [68]. There is a correlation between second polar moments of area in both sexes and minimum precipitation. This is an addition to one of the many correlated with body size in millipedes.

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289. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNLIGHT 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 RED 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.).
292. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNLIGHT IS RELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
293. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNLIGHT IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
294. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNLIGHT IS RELATED TO PRECIPITATION IN FOREST RED 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 MAXIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
299. Cooper Mark. ABUNDANCE IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
300. Cooper Mark. MATING FREQUENCIES ARE RELATED TO 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. (In Prep.).
302. Cooper Mark. MATING FREQUENCIES ARE RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).

- FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In 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.).
305. Cooper Mark. VOLUME IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
306. Cooper Mark. PRECIPITATION IS RELATED TO MEAN OCEAN 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 COASTAL 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 WATER 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 Prep.).
310. Cooper Mark. MAXIMUM TEMPERATURE IS RELATED TO MEAN OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
311. Cooper Mark. SURFACE AREA IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
312. Cooper Mark. MONTH WITH THE HIGHEST NUMBER OF 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 IS RELATED TO MEAN OCEAN WATER TEMPERATURE NEAR FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
315. Cooper Mark. TEMPERATURE IS RELATED MEAN OCEAN WATER TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
316. Cooper Mark. SEXUAL SIZE DIMORPHISM IS CORRELATED TO MEAN OCEAN WATER TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
317. 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.).
319. Cooper Mark. MINIMUM OCEAN WATER TEMPERATURE IS RELATED TO HIGHEST NUMBER OF DAILY HOURS OF SUNSHINE IN A MONTH IN FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
20. Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR IS RELATED TO MINIMUM OCEAN WATER TEMPERATURE NEAR FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
21. 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.).
22. Cooper Mark. SURFACE AREA IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
23. Cooper Mark. MAXIMUM TEMPERATURE IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
24. Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
25. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IN A DAY IS RELATED TO MINIMUM OCEAN WATER TEMPERATURE NEAR FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
26. Cooper Mark. HIGHEST RELATIVE HUMIDITY IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
27. Cooper Mark. CURVED SURFACE AREA IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
28. Cooper Mark. PRECIPITATION IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
29. Cooper Mark. VOLUME IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
30. Cooper Mark. WIDTH IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
31. Cooper Mark. LENGTH IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
32. Cooper Mark. WIDTH IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
33. Cooper Mark. LENGTH IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
34. Cooper Mark. LOWEST RELATIVE HUMIDITY IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
35. Cooper Mark. HIGHEST RELATIVE HUMIDITY IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).

336. Cooper Mark. CURVED SURFACE AREA IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
337. Cooper Mark. PRECIPITATION IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST REDMILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
338. Cooper Mark. MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST REDMILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
339. Cooper Mark. SURFACE AREA IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST REDMILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
340. Cooper Mark. MAXIMUM TEMPERATURE IS RELATED TO 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. (In Prep.).
342. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IN A DAY IS RELATED TO HIGHEST OCEAN WATER TEMPERATURE NEAR FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
343. Cooper Mark. LATITUDE IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
344. Cooper Mark. LONGITUDE IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
345. Cooper Mark. AVERAGE TEMPERATURE IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
346. Cooper Mark. AVERAGE TEMPERATURE VARIATION IS RELATED TO LENGTH IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
347. Cooper Mark. CURVED SURFACE AREA IS RELATED AVERAGE TEMPERATURE VARIATION IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
348. Cooper Mark. AVERAGE TEMPERATURE VARIATION IS RELATED TO SURFACE AREA IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
349. Cooper Mark. CURVED SURFACE AREA IS RELATED TO SPECIES RICHNESS IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
350. Cooper Mark. CURVED SURFACE AREA IS RELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
351. Cooper Mark. CURVED SURFACE AREA IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
352. 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.).
353. 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.).
355. Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
356. Cooper Mark. TEMPERATURE IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
357. Cooper Mark. PRECIPITATION IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
358. Cooper Mark. PRECIPITATION IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
359. 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.).
361. Cooper Mark. DISTANCE TO THE NEAREST AIRPORT IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
362. Cooper Mark. SPECIES RICHNESS IS NOT RELATED TO DISTANCE TO THE NEAREST AIRPORT IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
363. Cooper Mark. MATING FREQUENCY IS RELATED TO DISTANCE TO THE NEAREST AIRPORT IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
364. Cooper Mark. DISTANCE TO THE NEAREST AIRPORT IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
365. Cooper Mark. DISTANCE TO THE NEAREST AIRPORT IS 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 HIGHEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
368. 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.).
369. 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.).
370. Cooper Mark. Male surface area to volume ratio tracks average temperature in pill millipedes *Sphaerotherium* Brandt, 1833. (In Prep.).
371. Cooper Mark. ABUNDANCE IS RELATED TO HIGHEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).

372. 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.).
373. Cooper Mark. LOWEST RELATIVE HUMIDITY IS RELATED TO HIGHEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
374. Cooper Mark. SURFACE AREA-TO-VOLUME RATIO IS RELATED TO LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IN CENTROBOLUS COOK, 1897. (In Prep.).
375. Cooper Mark. FEMALE SURFACE AREA-TO-VOLUME RATIO IS RELATED TO MINIMUM TEMPERATURE IN CENTROBOLUS COOK, 1897. (In Prep.).
376. Cooper Mark. SURFACE AREA-TO-VOLUME RATIO IS 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 IS 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. (In Prep.).
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.).
383. Cooper Mark. Mean annual temperature varies with the lowest average temperature in determining the size of female pill millipedes *Sphaerotherium Brandt*, 1833. (In Prep.).
384. Cooper Mark. Mean annual temperature varies with the highest average temperature in determining the size of female pill millipedes *Sphaerotherium Brandt*, 1833. (In Prep.).
385. Cooper Mark. The driest months varies with the distance to the 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.).
387. 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.).
388. Cooper Mark. SURFACE AREA IS RELATED TO WIDTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
389. Cooper Mark. SURFACE AREA IS RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
390. Cooper Mark. SPECIES RICHNESS IS MARGINALLY RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
391. Cooper Mark. SPECIES RICHNESS IS RELATED TO LOWEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
392. Cooper Mark. SPECIES RICHNESS IS RELATED TO PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
393. Cooper Mark. SPECIES RICHNESS IS RELATED TO 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.).
403. Cooper Mark. CURVED SURFACE AREA IS RELATED TO WIDTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
404. Cooper Mark. CURVED SURFACE AREA IS RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
405. Cooper Mark. CURVED SURFACE AREA IS RELATED TO SEX RATIO IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
406. Cooper Mark. COPULATION DURATION IS RELATED TO CURVED SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
407. Cooper Mark. CURVED SURFACE AREA IS RELATED TO MOMENTS OF INERTIA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
408. Cooper Mark. CURVED SURFACE AREA IS RELATED TO MASS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
409. Cooper Mark. CURVED SURFACE AREA IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).

410. Cooper Mark. CURVED SURFACE AREA IS RELATED TO SPECIES VOLUME IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
411. Cooper Mark. CURVED SURFACE AREA IS RELATED TO SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
412. Cooper Mark. CURVED SURFACE AREA IS RELATED TO LOWEST HOURS OF SUNSHINE IN A DAY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
413. Cooper Mark. CURVED SURFACE AREA IS RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE THROUGHOUT A 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 FOREST 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 RELATIVE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
418. Cooper Mark. MASS IS CORRELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES 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.).
423. Cooper Mark. MATING FREQUENCY IS RELATED TO HOURS OF SUNSHINE THROUGHOUT THE YEAR IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
424. Cooper Mark. MATING FREQUENCY IS RELATED TO LOWEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
425. Cooper Mark. MATING FREQUENCY IS RELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
426. Cooper Mark. MATING FREQUENCY IS RELATED TO MAXIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
427. Cooper Mark. MATING FREQUENCY IS RELATED TO PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
428. Cooper Mark. MATING FREQUENCY IS RELATED TO PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
429. Cooper Mark. MATING FREQUENCY IS RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE THROUGHOUT A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
430. Cooper Mark. TEMPERATURE IS RELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
431. Cooper Mark. TEMPERATURE IS RELATED TO MAXIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
432. Cooper Mark. PRECIPITATION IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
433. Cooper Mark. HIGHEST TOTAL HOURS OF SUNSHINE THROUGHOUT A MONTH ARE RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
434. Cooper Mark. HIGHEST TOTAL HOURS OF SUNSHINE 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.).
436. 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.).
437. Cooper Mark. COPULATION DURATION IS RELATED TO MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
438. Cooper Mark. MOMENTS OF INERTIA ARE RELATED TO MAXIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
439. Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR ARE RELATED TO SPECIES VOLUME IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
440. Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
441. Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR IS RELATED TO SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
442. Cooper Mark. COPULATION DURATION IS RELATED TO LOWEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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APPENDIX 1. Second polar moments of area (mm⁴; three significant figures after the decimal) for female *Centrobolus Cook*, 1897.

2035.752
 644.1247
 488.7841
 588.7495
 644.1247
 3358.579

3771.482
 3165.331
 766.4985
 644.1247
 7820.545
 186.2840
 1658.133
 1437.377
 2174.900
 4970.098
 3771.482
 833.8440
 537.0240
 1148.506
 766.4985
 7101.912

APPENDIX 2. Second polar moments of area (mm⁴; three significant figures after the decimal) for male *Centrobolus Cook*, 1897.

402.124
 1239.434
 644.125
 402.124
 981.748
 1148.506
 766.499
 1903.391
 644.125
 766.499
 2321.061
 263.834
 1239.434
 766.499
 1148.506
 1335.657
 263.834
 588.750
 443.870
 588.750
 402.124
 2035.752

Appendix 3. Maximum precipitation (mm) in *Centrobolus Cook*, 1897.

164
 103
 167

92
89
113
264
119
103
140
58
112
119
113
109
110
58
151
47
91
166
140