

SEXUAL SIZE DIMORPHISM IS CORRELATED TO MAXIMUM PRECIPITATION IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

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Abstract- The maximum precipitation was tested for a correlation with sexual size dimorphism in 22 species of red millipedes *Centrobolus*. The maximum precipitation was correlated with sexual size dimorphism ($r=0.36070812$, Z score= 1.64635478 , $n=22$, $p=0.04984535$) ($y = 28.40641634 \cdot x + 77.13654581$). Maximum precipitation was also correlated with latitude, longitude, altitude, air pressure and millipede moments of inertia. Minimum ocean water temperature was marginally related to maximum precipitation. Average monthly duration of sunlight was related to maximum precipitation ($r=-0.38196213$, Z score= -1.75382449 , $n=22$, $p=0.03973025$). Abundance of two species were related to maximum precipitation at type localities ($r=0.63046242$, Z score= 1.65957221 , $n=8$, $p=0.04850025$).

Keywords: maximum, Red Millipedes, precipitation.

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 maximum precipitation was tested for a correlation with sexual size dimorphism in *Centrobolus* Cook, 1897. Covariation with maximum precipitation was also considered.

II. MATERIALS AND METHODS

Sexual size dimorphism measurements for 22 species of southern African *Centrobolus* were obtained from published material [57]. Maximum precipitation values were obtained online at

<https://en.climate-data.org/africa/south-africa>.

Uitenhage (not Port Elizabeth) was chosen as the nearest town to Glengonnor. A correlation between the maximum precipitation with sexual size dimorphism was generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1). A figure was produced at <https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php>.

Maximum precipitation was also correlated with latitude, longitude, altitude, air pressure, average monthly duration of sunlight and millipede moments of inertia (Appendix 2-8). Abundance of two species (*C. anulatus*, *C. inscriptus*) was tested against maximum precipitation at type localities (Appendix 9).

III. RESULTS

The maximum precipitation was correlated with sexual size dimorphism (Fig. 1: $r=0.36070812$, Z score= 1.64635478 , $n=22$, $p=0.04984535$) ($y = 28.40641634 \cdot x + 77.13654581$).

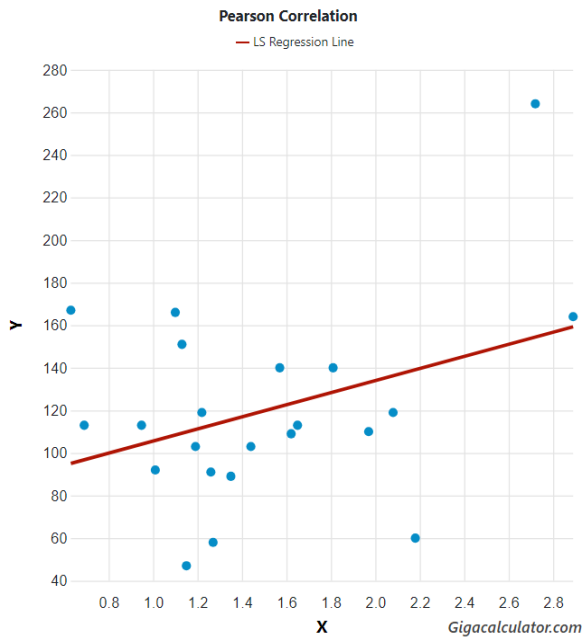


Fig. 1. Correlation between the maximum precipitation (y) with sexual size dimorphism (x) across therange of *Centrobolus* Cook, 1897.

The latitude was correlated with maximum precipitation (Fig. 2: $r = 0.7351$, $r^2 = 0.5404$, $n = 22$, $p = 0.000097$).

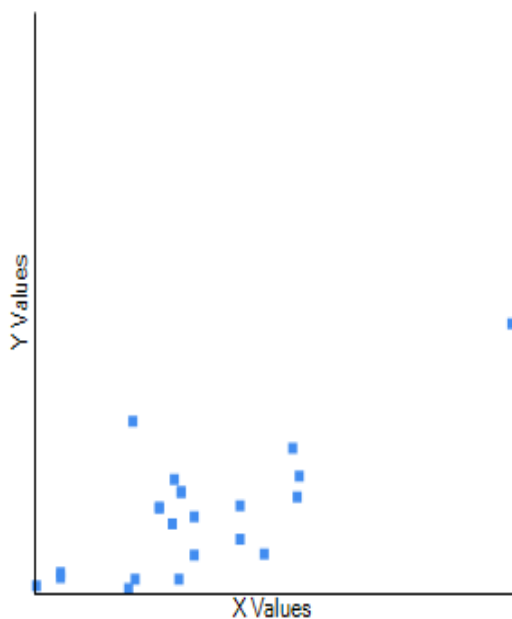


Fig. 2. Correlation between latitude (Y) and maximum precipitation (X) across therange of *Centrobolus* Cook, 1897.

The longitude was correlated with maximum precipitation (Fig. 3: $r = 0.54458$, $r^2 = 0.2968$, $n = 22$, $p = 0.008747$).

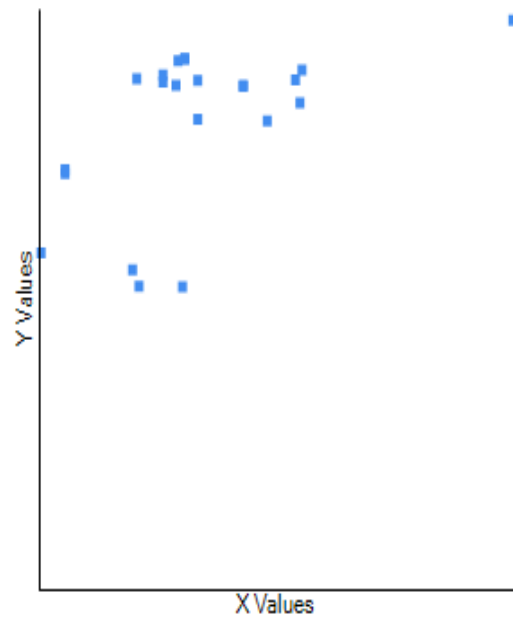


Fig. 3. Correlation between longitude (Y) and maximum precipitation (X) across therange of *Centrobolus* Cook, 1897.

Altitude was related to maximum precipitation (Fig. 4: $r = -0.5333$, $r^2 = 0.2844$, $n = 22$, $p = 0.010645$).

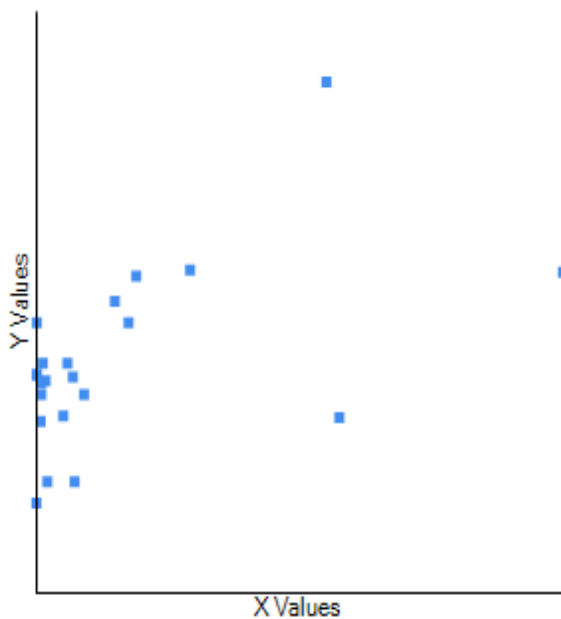


Fig. 4. Correlation between altitude (m) and maximum precipitation across therange of *Centrobolus* Cook, 1897.

The air pressure was correlated with maximum precipitation (Fig. 5: $r=-0.66202762$, Z score= -3.47149120 , $n=22$, $p=0.00025883$).

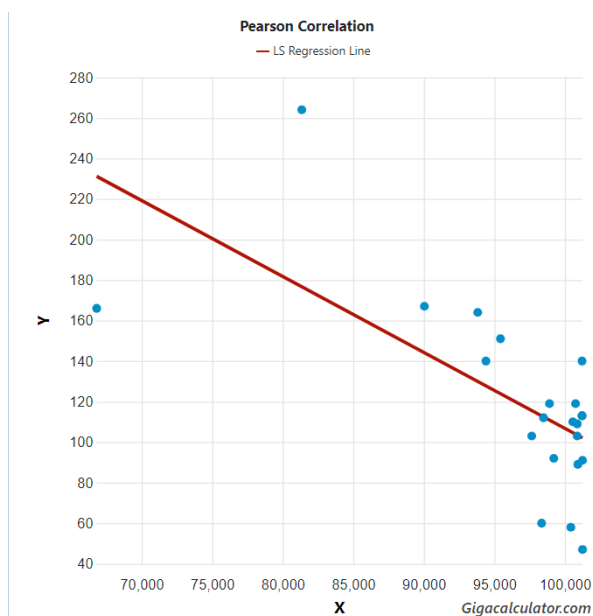


Fig. 5. Correlation between air pressure (X) and maximum precipitation (Y) across therange of *Centrobolus* Cook, 1897.

The moments of inertia were correlated with maximum precipitaiton (Fig. 6: $r=0.8078$, $r^2=0.6526$, $n=10$, $p=0.004682$).

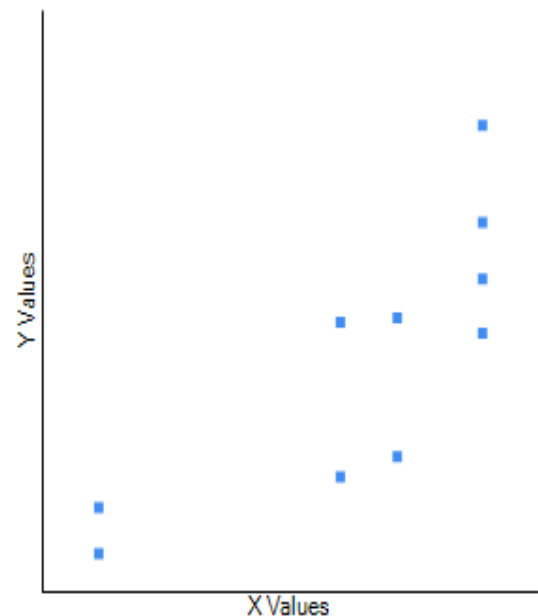


Fig. 6. Correlation between moments of inertia (Y) and maximum precipitation (X) across therange of *Centrobolus* Cook, 1897.

Minimum ocean water temperature was marginally related to maximum precipitation (Fig. 7: $r=0.53038241$, Z score= 1.56278472 , $n=10$, $p=0.05905163$).

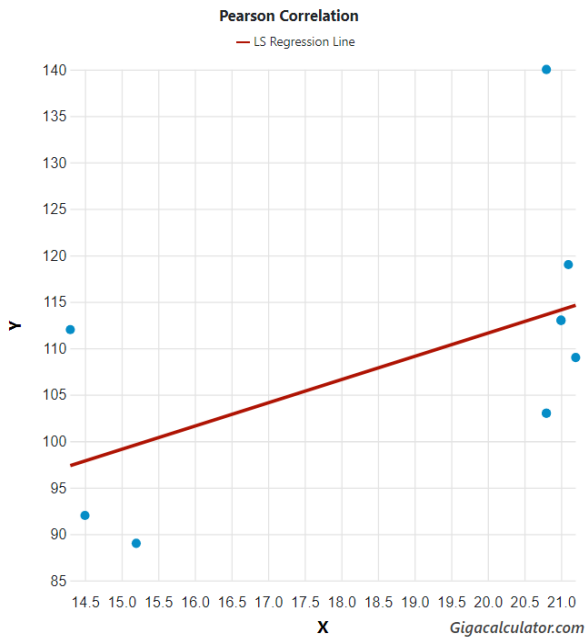


Fig. 7. Marginal correlation between minimum ocean water temperature and maximum precipitation in *Centrobolus Cook, 1897*.

Average monthly duration of sunlight was related to maximum precipitation (Fig. 8: $r=-0.38196213$, Z score= -1.75382449 , $n=22$, $p=0.03973025$).

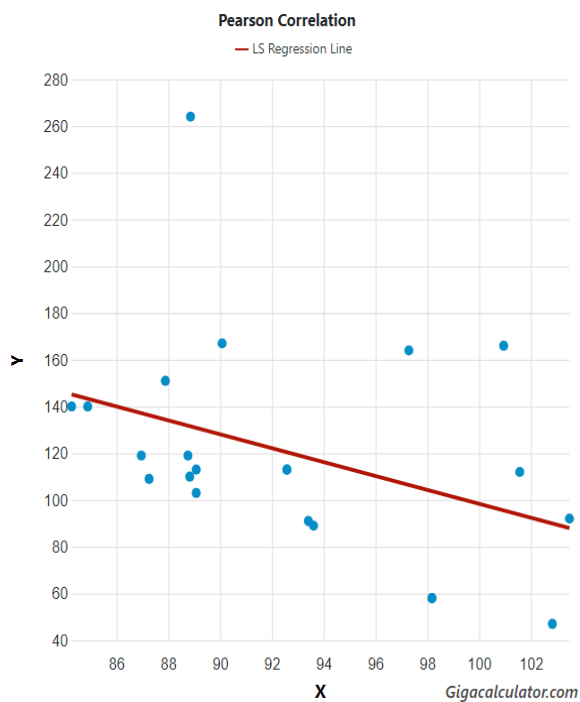


Fig. 8. Correlation between average monthly duration of sunlight (h) and maximum precipitation across therange of *Centrobolus Cook, 1897*.

Abundance was related to maximum precipitation (Fig. 1: $r=0.63046242$, Z score= 1.65957221 , $n=8$, $p=0.04850025$).

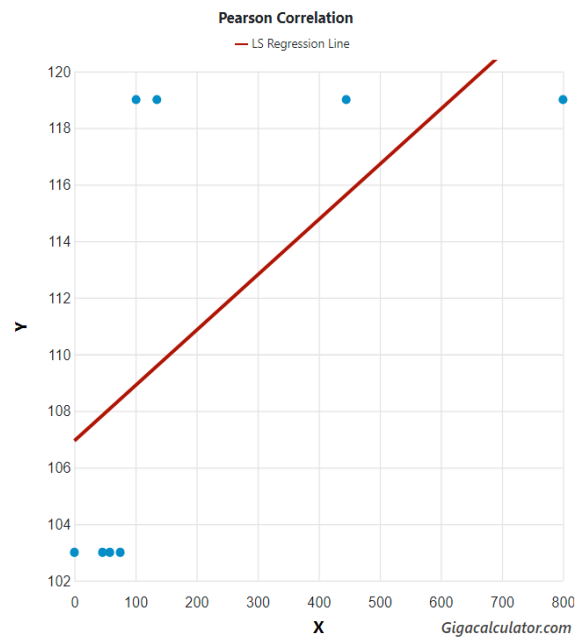


Fig. 9. Correlation between abundance and maximum precipitation across two species of *Centrobolus Cook, 1897*.

IV. DISCUSSION

There is a correlation between maximum precipitation with sexual size dimorphism in *Centrobolus*. Maximum precipitation was also correlated with latitude, longitude, altitude, air pressure and millipede moments of inertia. Choosing Uitenhage (not Port Elizabeth) as the nearest town to Glengonnor increased the maximum precipitation by 2 mm and changed the relationship between SSD and maximum precipitation from marginal to significant. Average monthly duration of sunlight correlated with and maximum precipitation. Abundance and maximum precipitation were correlated across two species with similar SSD.

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260. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNLIGHT IS RELATED TO MAXIMUM PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
261. Cooper Mark. CURVED SURFACE AREA IS RELATED TO MINIMUM PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
262. Cooper Mark. SEXUAL SIZE DIMORPHISM IS marginally CORRELATED TO MAXIMUM PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
263. Cooper Mark. HIGHEST RELATIVE HUMIDITY IS RELATED TO MINIMUM PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
264. Cooper Mark. LOWEST RELATIVE HUMIDITY IS RELATED TO MINIMUM PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
265. Cooper Mark. ABUNDANCE IS RELATED TO MAXIMUM PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
266. Cooper Mark. ABUNDANCE IS RELATED TO MINIMUM PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
267. Cooper Mark. MATING FREQUENCIES ARE RELATED TO MAXIMUM PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
268. Cooper Mark. MATING FREQUENCIES ARE RELATED TO MINIMUM PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
269. Cooper Mark. COPULATION DURATION IS RELATED TO MAXIMUM PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
270. Cooper Mark. MAXIMUM PRECIPITATION IS RELATED TO MOMENTS OF INERTIA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
271. Cooper Mark. MINIMUM PRECIPITATION IS RELATED TO MOMENTS OF INERTIA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
272. Cooper Mark. MINIMUM PRECIPITATION IS RELATED TO MASS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
273. Cooper Mark. MAXIMUM PRECIPITATION IS RELATED TO MASS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
274. Cooper Mark. MAXIMUM PRECIPITATION IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).

275. Cooper Mark. MAXIMUM PRECIPITATION IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.)
276. Cooper Mark. MINIMUM PRECIPITATION IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.)
277. Cooper Mark. MINIMUM PRECIPITATION IS RELATED TO SPECIES VOLUME IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.)
278. Cooper Mark. MINIMUM PRECIPITATION IS RELATED TO SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.)
279. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IN A DAY IS RELATED TO MINIMUM PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.)
280. Cooper Mark. MINIMUM PRECIPITATION IS RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.)
281. Cooper Mark. Hours of sunshine each month correlates with the month with the lowest daily hours of sunshine in pill millipedes Sphaerotherium Brandt, 1833. (In Prep.)
282. Cooper Mark. Hours of sunshine each month correlates with the month with the most daily hours of sunshine in pill millipedes Sphaerotherium Brandt, 1833. (In Prep.)
283. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNILGHT IS RELATED TO MATING FREQUENCY IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.)
284. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNILGHT IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.)
285. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNILGHT IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.)
286. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNLIGHT IS RELATED TO VOLUME IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.)
287. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNLIGHT IS RELATED TO MAXIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.)
288. 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.)
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.)
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.).
320. Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE 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.).
322. Cooper Mark. SURFACE AREA IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
323. Cooper Mark. MAXIMUM TEMPERATURE IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
324. Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
325. 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.).
326. Cooper Mark. HIGHEST RELATIVE HUMIDITY IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
327. Cooper Mark. CURVED SURFACE AREA 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 OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
329. Cooper Mark. VOLUME IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
330. Cooper Mark. WIDTH IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
331. Cooper Mark. LENGTH IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
332. Cooper Mark. WIDTH IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).

333. Cooper Mark. LENGTH IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
334. Cooper Mark. LOWEST RELATIVE HUMIDITY IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
335. 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 RED MILLIPEDES 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 RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
339. Cooper Mark. SURFACE AREA IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
340. Cooper Mark. MAXIMUM TEMPERATURE IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
341. Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES 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 RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
344. Cooper Mark. LONGITUDE IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES 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 TO 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.).
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- 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.).
443. Cooper Mark. LOWEST RELATIVE HUMIDITY IS RELATED TO MOMENTS OF INERTIA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
444. Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR IS RELATED TO MOMENTS OF INERTIA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
445. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IS RELATED TO MOMENTS OF INERTIA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
446. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IS RELATED TO MASS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
447. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
448. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
449. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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451. 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.).
452. Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IS RELATED TO SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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455. 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.).
456. 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.).
457. 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.).
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459. Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR IS RELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
460. Cooper Mark. LOWEST RELATIVE HUMIDITY IS RELATED TO MAXIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
461. Cooper Mark. LOWEST RELATIVE HUMIDITY IS RELATED TO PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
462. Cooper Mark. MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IS RELATED TO PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
463. Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO TOTAL HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
464. Cooper Mark. MAXIMUM TEMPERATURE IS RELATED TO TOTAL HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).

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465. Cooper Mark. PRECIPITATION IS RELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
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469. Cooper Mark, MINIMUM TEMPERATURE IS RELATED TO MAXIMUM TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
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 2.18, 60
 0.69, 113
 2.08, 119
 0.94806196, 113
 1.62138475, 109
 1.97, 110
 1.27, 58

508. Cooper Mark I. 2023. IS MASS CORRELATED WITH LENGTH AMONG RED MILLIPEDES *CENTROBOLUS COOK*, 1897? *Munis Entomology & Zoology*, 18(1): 404-408. http://www.munisentzool.org/Issue/abstract/is-mass-correlated-with-length-among-red-millipedes-centrobolus-cook-1897_13922. <http://hdl.handle.net/10019.1/125806>. 1.13, 151
 1.15, 47
 1.26, 91
 1.10, 166
 1.81, 140

509. Cooper Mark I. 2023. THE HIGHEST DAILY HOURS OF SUNSHINE ARE RELATED TO LONGITUDE ACROSS THE DISTRIBUTION OF PILL MILLIPEDES *SPHAEROTHERIUM BRANDT*, 1833. *Munis Entomology & Zoology*, 18(1): 385-387. http://www.munisentzool.org/Issue/abstract/the-highest-daily-hours-of-sunshine-are-related-to-longitude-across-the-distribution-of-pill-millipedes-sphaerotherium-brandt-1833_13920. <http://hdl.handle.net/10019.1/125806>. **APPENDIX 2.** The latitude across *Centrobolus Cook*, 1897.
 -26.1502
 -29.7462
 -27.8403
 -34.0477
 -34.5849
 -28.7784
 -18.6866
 -30.2805
 -29.7080
 -29.6301
 -33.9322
 -34.0164
 -32.5717
 -28.7784
 -30.7157
 -28.0246
 -33.6367
 -32.5064
 -34.4142
 -24.5392
 -29.0939
 -31.6334

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 31.084
 31.400
 18.357
 19.350
 32.049
 34.394

511. Cooper Mark I. 2023. PRECIPITATION DURING THE DRIEST MONTH IS marginally RELATED TO LONGITUDE ACROSS THE DISTRIBUTION OF RED MILLIPEDES *CENTROBOLUS COOK*, 1897. *Munis Entomology & Zoology*, 18(1): 339-341. http://www.munisentzool.org/Issue/abstract/precipitation-during-the-driest-month-is-marginally-related-to-longitude-across-the-distribution-of-red-millipedes-centrobolus-cook-1897_13915.

APPENDIX 1. Maximum precipitation (mm) preceded by sexual size dimorphism *Centrobolus Cook*, 1897.

2.89, 164
 1.19086177, 103
 0.63, 167
 1.01, 92
 1.35, 89
 1.65, 113
 2.72, 264
 1.2194459, 119
 1.44, 103

APPENDIX 3. The longitude across *Centrobolus Cook*, 1897.

30.786
 31.084
 31.400
 18.357
 19.350
 32.049
 34.394

30.754
30.666
30.393
25.173
18.348
28.433
32.078
30.456
31.952
25.396
28.317
20.383
30.867
29.418
30.451

APPENDIX 4. Altitude (m) across the range of *Centrobolus* Cook, 1897.

646
38
990
178
34
9
1863
48
312
596
252
240
206
9
38
65
76
509
6
1947
3377
9

APPENDIX 5. Air pressure (Pa) followed by maximum precipitation (mm) across the range of *Centrobolus* Cook, 1897.

93824.08, 164
100877.7, 103
90043.31, 167
99215.02, 92

100919.9, 89
101219.5, 113
81349.35, 264
100758.5, 119
97652.69, 103
94406.69, 140
98354.45, 60
98488.49, 112
98911.95, 119
101219.5, 113
100877.2, 109
100565.0, 110
100426.5, 58
95437.59, 151
101253.4, 47
101253.4, 91
66812.02, 166
101218.7, 140

APPENDIX 6. The moments of inertia followed by maximum precipitation (mm) in four species of *Centrobolus* Cook, 1897.

10.791
4.7021
4.00
1.36
8.9401
12.738
9.4659
9.3025
2.9376
16.078

119
113
109
92
119
119
113
109
92
119

APPENDIX 7. Minimum ocean temperature (degrees Celsius) followed by maximum precipitation (mm) in coastal *Centrobolus* Cook, 1897.

20.80, 103

14.50, 92
15.20, 89
21.00, 113
21.10, 119
20.80, 103
14.30, 112
21.00, 113
21.20, 109
20.80, 140

APPENDIX 8. Average monthly duration of sunlight (h) across the range of *Centrobolus* Cook, 1897.

97.29
89.08
90.08
103.49
93.61
92.58
88.86
88.76
89.08
84.89
98.18
101.57
86.96
92.58
87.26
88.83
98.18
87.89
102.83
93.41
100.95
84.27

APPENDIX 9. Abundance across two species of *Centrobolus* followed by maximum precipitation (mm).

101, 119
445, 119
800, 119
135, 119
46, 103
58, 103
75, 103
0, 103