

AVERAGE TEMPERATURE, MINIMUM TEMPERATURE, MAXIMUM TEMPERATURE, PRECIPITATION, HUMIDITY, RAINY DAYS, AND AVERAGE SUN HOURS ACROSS THE DISTRIBUTION OF *CENTROBOLUS* IN SOUTHERN AFRICA

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Abstract- The average temperature, minimum temperature, maximum temperature, precipitation, humidity, number of rainy days, and average sun hours across the distribution of *Centrobolus* millipedes was estimated for one calendar year. Maximum, minimum, Population Standard Deviation, Sample Standard Deviation, Population variance, and Sample variance for each of the seven factors are given.

Keywords: Millipedes, weather.

I. INTRODUCTION

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 many considered threatened and includes vulnerable and endangered species [226]. Millipedes occur in all the forests of the coastal belt from the Cape Peninsula to Beira in Mozambique [225]. Millipedes have female-biased sexual size dimorphism [57].

Here, the average temperature, minimum temperature, maximum temperature, precipitation, humidity, number of rainy days, and average sun hours across the distribution of *Centrobolus* millipedes was estimated for one calendar year over 19 type locations.

II. MATERIALS AND METHODS

Climatic factors (average temperature, minimum temperature, maximum temperature, precipitation, humidity, number of rainy days, and average sun hours) were obtained for 19 type localities at <https://en.climate-data.org/africa/south-africa/> over a

twelve month monthly period (Appendix 1-7). The factor was added to get a total and then divided over 19 to get an average.

III. RESULTS

Average Temperature

The mean average temperature across the distribution of *Centrobolus* millipedes was estimated for one calendar year as 18.6960526316 degrees Celsius ($n=19$ type localities). The maximum mean average temperature at any one locality was 22.78 degrees Celsius at Gorongosa (Mozambique) and the minimum mean average temperature was at Lochiel which was 15.925 degrees Celsius. Population Standard Deviation (σ) was 27.4547 degrees Celsius and the Sample Standard Deviation (S) was 28.207 degrees Celsius. The Population variance (σ^2) was 753.7604 degrees Celsius and the Sample variance (S^2) was 795.636 degrees Celsius.

Minimum Temperature

The mean minimum temperature across the distribution of *Centrobolus* millipedes was estimated for one calendar year as 14.5460526316 degrees Celsius ($n=19$ type localities). The maximum mean minimum temperature at any one locality was 17.13 degrees Celsius at Umhlanga Rocks and the minimum mean maximum temperature was at Vryheid which was 10.92 degrees Celsius. Population Standard Deviation (σ) was 37.3682 degrees Celsius and the Sample Standard Deviation (S) was 38.3922 degrees Celsius. The Population variance (σ^2) was 1396.3835 degrees Celsius and the Sample variance (S^2) was 1473.9604 degrees Celsius.

Maximum Temperature

The mean maximum temperature across the distribution of *Centrobolus* millipedes was estimated for one calendar year as 23.4912280702 degrees Celsius (n=19 type localities). The maximum mean maximum temperature at any one locality was 27.725 degrees Celsius at Gorongosa (Mozambique) and the minimum mean maximum temperature was at Cape Town (Little Lions Head) which was 18.8166666667 degrees Celsius. Population Standard Deviation (σ) was 27.8638 degrees Celsius and the Sample Standard Deviation (S) was 28.6273 degrees Celsius. The Population variance (σ^2) was 776.39 degrees Celsius and the Sample variance (S^2) was 819.5227 degrees Celsius.

Precipitation

The precipitation across the distribution of *Centrobolus* millipedes was estimated for one calendar year as 821.3 mm (n=19 type localities). The maximum mean precipitation at any one locality was 1266 mm at Gorongosa and the minimum mean number was at De Hoop which was 386 mm. Population Standard Deviation (σ) was 237.998 mm and the Sample Standard Deviation (S) was 244.5197 mm. The Population variance (σ^2) was 56643.0582 mm and the Sample variance (S^2) was 59789.8947 mm.

Humidity

The humidity across the distribution of *Centrobolus* millipedes was estimated for one calendar year as 69.838% (n=19 type localities). The maximum humidity at any one locality was 76.5% at Port Shepstone and the minimum number was at Kirkwood which was 60.6%. Population Standard Deviation (σ) was 74.9831 and the Sample Standard Deviation (S) was 77.0379. The Population variance (σ^2) was 5622.4709 and the Sample variance (S^2) was 5934.8304

Rainy days

A total of 1566 rainy days were recorded across 19 localities in a year. On average 82.4210526 rainy

days were recorded at each locality. Population Standard Deviation (σ) was 20.3762 days and the Sample Standard Deviation (S) was 20.9346 days. The Population variance (σ^2) was 415.1911 days and the Sample variance (S^2) was 438.2573 days.

Average sun hours

A total of 1749.7 average sun hours across the distribution of *Centrobolus* millipedes was estimated for one calendar year over 19 type localities. The maximum number of sun hours at any one locality was 103.4 hours at Hout Bay and the minimum number was at Port St Johns which was 84.3 hours. Population Standard Deviation (σ) was 5.8993 hours and the Sample Standard Deviation (S) was 6.061 hours. The Population variance (σ^2) was 34.802 hours and the Sample variance (S^2) was 36.7354 hours.

IV. DISCUSSION

The mean average temperature across the distribution of *Centrobolus* millipedes was estimated for one calendar year as 18.6960526316 degrees Celsius (n=19 type localities). The maximum mean average temperature at any one locality was 22.78 degrees Celsius at Gorongosa (Mozambique) and the minimum mean average temperature was at Lochiel which was 15.93 degrees Celsius. Population Standard Deviation (σ) was 27.4547 degrees Celsius and the Sample Standard Deviation (S) was 28.207 degrees Celsius. The Population variance (σ^2) was 753.7604 degrees Celsius and the Sample variance (S^2) was 795.636 degrees Celsius. *Centrobolus* millipedes range across a average temperature regime from Gorongosa (22.78 degrees Celsius) to Lochiel (15.93 degrees Celsius).

The mean minimum temperature across the distribution of *Centrobolus* millipedes was estimated for one calendar year as 14.5460526316 degrees Celsius (n=19 type localities). The maximum mean minimum temperature at any one locality was 17.13

degrees Celsius at Umhlanga Rocks and the minimum mean maximum temperature was at Vryheid which was 10.92 degrees Celsius. Population Standard Deviation (σ) was 37.3682 degrees Celsius and the Sample Standard Deviation (S) was 38.3922 degrees Celsius. The Population variance (σ^2) was 1396.3835 degrees Celsius and the Sample variance (S^2) was 1473.9604 degrees Celsius. *Centrobolus* millipedes range across a minimum temperature regime from Umhlanga Rocks (17.13 degrees Celsius) to Vryheid (10.92 degrees Celsius). The mean maximum temperature across the distribution of *Centrobolus* millipedes was estimated for one calendar year as 23.4912280702 degrees Celsius (n=19 type localities). The highest mean maximum temperature at any one locality was 27.725 degrees Celsius at Gorongosa (Mozambique) and the lowest mean maximum temperature number was at Cape Town (Little Lions Head) which was 18.8166666667 degrees Celsius. Population Standard Deviation (σ) was 27.8638 degrees Celsius and the Sample Standard Deviation (S) was 28.6273 degrees Celsius. The Population variance (σ^2) was 776.39 degrees Celsius and the Sample variance (S^2) was 819.5227 degrees Celsius. *Centrobolus* millipedes range across a maximum temperature regime from Gorongosa (27.725 degrees Celsius) to Cape Town (18.817 degrees Celsius).

The precipitation across the distribution of *Centrobolus* millipedes was estimated for one calendar year as 821.3 mm (n=19 type localities). The maximum mean precipitation at any one locality was 1266 mm at Gorongosa and the minimum mean number was at De Hoop which was 386 mm. Population Standard Deviation (σ) was 237.998 mm and the Sample Standard Deviation (S) was 244.5197 mm. The Population variance (σ^2) was 56643.0582 mm and the Sample variance (S^2) was 59789.8947 mm. *Centrobolus* millipedes range across a

precipitation regime from Gorongosa (1266 mm) to De Hoop (386 mm).

The humidity across the distribution of *Centrobolus* millipedes was estimated for one calendar year as 69.838% (n=19 type localities). The maximum humidity at any one locality was 76.5% at Port Shepstone and the minimum number was at Kirkwood which was 60.6%. Population Standard Deviation (σ) was 74.9831 and the Sample Standard Deviation (S) was 77.0379. The Population variance (σ^2) was 5622.4709 and the Sample variance (S^2) was 5934.8304. *Centrobolus* millipedes range across a humidity regime from Kirkwood (60.6%) to Port Shepstone (76.5%).

A total of 1566 rainy days were recorded across 19 localities in a year. On average 82.4210526 rainy days were recorded at each locality. Population Standard Deviation (σ) was 20.3762 days and the Sample Standard Deviation (S) was 20.9346 days. The Population variance (σ^2) was 415.1911 days and the Sample variance (S^2) was 438.2573 days. *Centrobolus* millipedes range across a rainfall regime from Mariepskop (35 days per year) to Gorongosa (104 days) and Port Shepstone (104 days).

A total of 1749.7 average sun hours across the distribution of *Centrobolus* millipedes was estimated for one calendar year over 19 type localities. The maximum number of sun hours at any one locality was 103.4 hours at Hout Bay and the minimum number was at Port St Johns which was 84.3 hours. Population Standard Deviation (σ) was 5.8993 hours and the Sample Standard Deviation (S) was 6.061 hours. The Population variance (σ^2) was 34.802 hours and the Sample variance (S^2) was 36.7354 hours.

Centrobolus millipedes range across a sunlight regime from Port St Johns (84.3 hours) to Hout Bay (103.4 hours).

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250. Cooper Mark. MASS IS RELATED TO ALTITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
251. Cooper Mark. ALTITUDE IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
252. Cooper Mark. MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IS RELATED TO ALTITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
253. Cooper Mark. Minimum precipitation correlates with maximum precipitation in pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
254. Cooper Mark. Minimum precipitation correlates with the month with the most daily hours of sunshine in pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
255. Cooper Mark. MINIMUM PRECIPITATION IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
256. Cooper Mark. MINIMUM PRECIPITATION IS RELATED MEAN OCEAN WATER TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
257. Cooper Mark. MAXIMUM PRECIPITATION IS marginally RELATED TO MINIMUM OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
258. Cooper Mark. MINIMUM PRECIPITATION IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
259. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNLIGHT IS marginally RELATED TO MINIMUM PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
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 SUNLIGHT IS RELATED TO MATING FREQUENCY IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
284. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNLIGHT IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
285. Cooper Mark. AVERAGE MONTHLY DURATION OF SUNLIGHT 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 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 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.).
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Appendix 1: Cumulative average temperature (monthly over twelve months) calculated across 19 localities of *Centrobolus*.

191.1+244.8+199.4+196.4+202.5+260.9+273.4+234.6+250.5+200.8+220.2+196.4+198.2+241.7+263.9+205.7+254.7+191.5+236

Appendix 2: Cumulative minimum temperature (monthly over twelve months) calculated across 19 localities of *Centrobolus*.

122.9+205.6+131+171.4+172.3+229.9+218.9+191.4+217.3+140.1+150.9+169.3+137.9+206.2+227.7+131.7+184.9+108.4+198.7

Appendix 3: Cumulative maximum temperature (monthly over twelve months) calculated across 19 localities of *Centrobolus*.

269.7+288.3+278.5+226.2+239.2+302.1+332.7+286.1+288.5+277.4+305.1+225.8+271.8+279.6+307.2+295.5+325.6+277.5+279.2

Appendix 4: Annual Precipitation calculated across 19 localities of *Centrobolus*.

919+893+962+498+609+944+1266+1015+893+966+451+621+932+947+837+386+450+927+1089

Appendix 5: Humidity calculated across 19 localities of *Centrobolus*.

796+904+773+902+888+869+852+890+909+878+727+902+826+918+854+691+688+751+905

Appendix 6: Rainfall days per year calculated across 19 localities of *Centrobolus*.

96+88+94+55+73+96+104+96+88+104+57+58+85+104+84+53+35+93+103

Appendix 7: Average sun hours calculated across 19 localities of *Centrobolus*.

88.4+89.1+90.1+103.4+93.6+92.6+88.8+88.8+89.1
+84.8+95.3+101.4+87+87.1+88.6+103+93.3+101+
84.3