

DALODESMIDAE COOK, 1896A LATITUDE IS RELATED TO LONGITUDE

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Abstract- Latitude was tested for a correlation with longitude in the southern African millipede family Dalodesmidae. The latitude was correlated with longitude (Pearson's $r=-0.785$, $r^2=0.6162$, $n=117$, $p<0.0001$) ($\hat{Y} = 55.0198 + 0.9196X$).

Keywords: latitude, longitude, Millipedes.

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 [1-442]. They occur in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [441]. Dalodesmidae is predicted to have female-biased sexual size dimorphism [44].

Here, the latitude was tested for a correlation with longitude in Dalodesmidae Cook, 1896a.

II. MATERIALS AND METHODS

Latitude and longitude co-ordinates were calculated for 117 species of Dalodesmidae Cook, 1896a from type localities given in the Checklist of Southern African millipedes. A correlation between latitude with longitude was generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1).

III. RESULTS

The latitude was correlated with longitude (Fig. 1: Pearson's $r=-0.785$, $r^2=0.6162$, $n=117$, $p<0.0001$) ($\hat{Y} = 55.0198 + 0.9196X$).

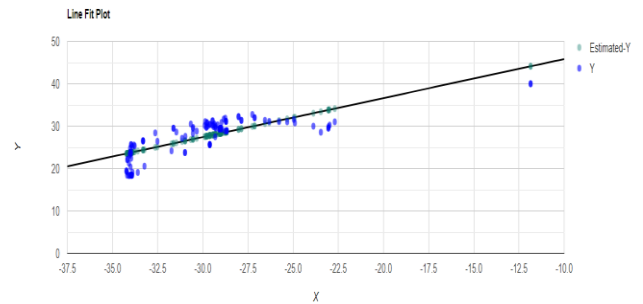


Fig. 1. Correlation between latitude (x) and longitude (y) across the range of Dalodesmidae Cook, 1896a.

IV. DISCUSSION

There is a correlation between latitude with the longitude in southern African Dalodesmidae. Because there is an inverse latitudinal diversity gradient in Dalodesmidae [222], species richness also increases with longitude.

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APPENDIX 1. The latitude in Dalodesmidae
 Cook, 1896a.

-23.8812	-29.6180
-29.8689	-31.4667
-23.4667	-27.8667
-29.0030	-22.6954
-29.3233	-29.0030
-30.9694	-29.6180
-29.3151	-29.0002
-33.9091	-28.7167
-23.0500	-29.4500
-29.8034	-29.7723
-28.6773	-32.5167
-29.6180	-29.0538
-34.0034	-27.1343
-29.3000	-28.7549
-34.1811	-29.0030
-23.0500	-33.9797
-22.9833	-34.1832
-11.8525	-27.1343
-29.2705	-30.5475
-33.9820	-29.0030
-33.9680	-33.2319
-29.8034	-29.6180
-29.355	-34.0299
-30.667	-30.5485
-29.7723	-29.4064
-33.7746	-29.0030
-33.3100	-34.0357
-28.9441	-24.9613
-33.3100	-29.4773
-28.7167	-31.6205
-28.7167	-11.8525
-33.3100	-24.9044
-33.8166	-29.7242
	-26.3257
	-26.5625
	-32.6345
	-27.2593
	-27.8667
	-25.7822
	-23.0383
	-30.9892
	-30.9892
	-29.0474
	-29.0538
	-28.8425
	-28.0246

-31.6334	27.4871
-28.0246	25.1970
-29.8967	29.5500
-28.9681	29.7637
-30.5379	28.9276
-31.1500	25.6590
-33.6014	20.3333
-33.9883	30.0670
-28.6773	22.1058
-34.2	29.5500
-33.96	30.2500
-25.3318	40.0250
-34.1041	29.5203
-33.96	25.6590
-33.8975	22.4499
-34.0587	29.7637
-34.0197	30.5264
-34.2300	30.5130
-34.2300	30.8302
-29.0772	25.3788
-34.0935	26.5270
-33.9858	29.2307
-28.7722	26.5270
-28.6773	31.1333
-30.3387	31.1333
-33.9719	26.5270
-31.7333	25.5500
-29.6168	25.6590
-29.1832	28.6000
-29.0936	31.4000
-29.6168	31.0161
-29.4780	29.4645
-29.4145	25.6590
-33.9611	29.4691
-33.9167	31.1333
-33.9167	31.2667
-34.0527	30.8302
-34.1934	26.4500
APPENDIX 2. The longitude in Dalodesmidae	29.3955
Cook, 1896a.	31.9965
29.9833	31.9015
31.0617	29.4645
28.5667	23.5567
29.4645	22.1536
29.7153	31.9965
27.5908	29.4244

29.4645	29.3503
20.5803	21.25725
25.6590	18.45833
24.7707	28.8731
28.2590	28.92759
30.2805	28.80366
29.4645	23.8864
23.0485	24.16667
31.5900	30.39278
31.2181	30.28803
29.5453	29.33126
40.0250	30.39278
30.7536	30.2306
30.0700	29.91334
31.1447	25.61494
31.3991	18.41667
28.4273	18.41667
32.7522	23.3716
31.4000	18.43585.
31.0475	
29.9067	
23.7709	
23.7709	
29.4178	
29.3955	
31.65819	
32.26928	
29.50747	
32.26928	
30.16969	
30.85527	
29.68334	
27.13970	
19.10703	
18.40345	
28.92759	
19.1667	
18.41	
31.0117	
18.3604	
18.41	
19.15233	
18.35669	
23.8907	
19.4265	
19.4265	