

DANA L. ROYER, PETER WILF, DAVID A. JANESKO, ELIZABETH A. KOWALSKI, AND DAVID L. DILCHER. 2005. Correlations of climatic and plant ecology to leaf size and shape: potential proxies for the fossil record. *American Journal of Botany* 92(7): 1141–1151.

APPENDIX 3. Correlation coefficients (r ; lower-left corner) and P -values (upper-right corner) of physiognomic and climate variables. Values in boldface represent correlations where $P < 0.05$. Variables are defined in Table 1.

	MAP	GSMAP	CMMT	WMMT	GSL	GDD	GSDD	MAT	Margin	PeriRatio	Peri:Area	Compact	ShapFact	FerDiamRatio	TA	TABA	TA:Peri	TA:IntPeri	#Teeth	AvgTA	#Teeth:Peri	#Teeth:IntPeri
MAP		0.000	0.002	0.173	0.003	0.002	0.001	0.009	0.002	0.010	0.438	0.041	0.014	0.021	0.090	0.013	0.046	0.038	0.082	0.134	0.017	0.013
GSMAP	0.94		0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.981	0.004	0.000	0.002	0.012	0.008	0.005	0.003	0.005	0.041	0.006	0.002
CMMT	0.70	0.89		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.221	0.000	0.000	0.000	0.002	0.034	0.002	0.001	0.000	0.044	0.003	0.000
WMMT	0.35	0.61	0.88		0.000	0.000	0.000	0.000	0.000	0.000	0.068	0.008	0.000	0.004	0.019	0.206	0.016	0.012	0.000	0.224	0.002	0.000
GSL	0.68	0.87	0.98	0.87		0.000	0.000	0.000	0.000	0.000	0.286	0.000	0.000	0.001	0.002	0.037	0.002	0.001	0.000	0.031	0.006	0.001
GDD	0.69	0.89	1.00	0.87	0.98		0.000	0.000	0.000	0.000	0.202	0.000	0.000	0.000	0.001	0.033	0.001	0.001	0.000	0.027	0.005	0.001
GSDD	0.73	0.91	0.99	0.85	0.99	1.00		0.000	0.000	0.000	0.301	0.000	0.000	0.000	0.002	0.028	0.002	0.001	0.000	0.030	0.006	0.001
MAT	0.61	0.83	0.99	0.93	0.97	0.99	0.98		0.000	0.000	0.130	0.001	0.000	0.000	0.003	0.059	0.002	0.001	0.000	0.055	0.003	0.000
Margin	0.70	0.84	0.92	0.76	0.90	0.91	0.91	0.90		0.000	0.275	0.000	0.000	0.000	0.004	0.010	0.001	0.001	0.000	0.095	0.005	0.001
PeriRatio	-0.60	-0.77	-0.86	-0.79	-0.85	-0.86	-0.86	-0.86	-0.82		0.231	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.017	0.001	0.000
Peri:Area	-0.20	0.01	0.31	0.45	0.28	0.33	0.27	0.38	0.28	-0.31		0.397	0.354	0.041	0.016	0.934	0.047	0.054	0.020	0.152	0.661	0.454
Comp	-0.50	-0.66	-0.75	-0.62	-0.76	-0.76	-0.76	-0.74	-0.78	0.78	-0.22		0.000	0.027	0.000	0.004	0.001	0.000	0.001	0.006	0.102	0.040
ShapFact	0.58	0.75	0.86	0.79	0.88	0.86	0.86	0.86	0.86	-0.91	0.24	-0.93		0.018	0.000	0.001	0.000	0.000	0.000	0.010	0.007	0.001
FerDiamRatio	-0.55	-0.71	-0.81	-0.66	-0.75	-0.81	-0.80	-0.80	-0.84	0.64	-0.50	0.44	-0.57		0.018	0.103	0.008	0.007	0.001	0.175	0.033	0.015
ToothArea	-0.42	-0.60	-0.69	-0.57	-0.69	-0.71	-0.70	-0.68	-0.66	0.76	-0.57	0.76	-0.77	0.61		0.004	0.000	0.000	0.000	0.000	0.120	0.045
TABA	-0.59	-0.62	-0.52	-0.32	-0.51	-0.52	-0.53	-0.47	-0.60	0.77	-0.02	0.66	-0.71	0.41	0.66		0.000	0.000	0.035	0.013	0.019	0.008
ToothArea:Peri	-0.49	-0.65	-0.70	-0.57	-0.69	-0.72	-0.71	-0.69	-0.71	0.85	-0.49	0.75	-0.81	0.62	0.92	0.85		0.000	0.001	0.000	0.036	0.008
ToothArea:IntPeri	-0.51	-0.67	-0.72	-0.60	-0.72	-0.74	-0.73	-0.71	-0.73	0.87	-0.48	0.76	-0.83	0.63	0.93	0.85	1.00		0.000	0.000	0.030	0.006
#Teeth	-0.43	-0.65	-0.86	-0.89	-0.83	-0.86	-0.84	-0.89	-0.82	0.89	-0.56	0.72	-0.83	0.74	0.75	0.51	0.75	0.77		0.066	0.001	0.000
AvgToothArea	-0.38	-0.50	-0.49	-0.31	-0.52	-0.54	-0.53	-0.47	-0.42	0.57	-0.36	0.63	-0.61	0.35	0.90	0.59	0.80	0.80	0.46		0.547	0.330
#Teeth:Peri	-0.57	-0.64	-0.68	-0.70	-0.64	-0.64	-0.64	-0.68	-0.64	0.74	-0.12	0.41	-0.63	0.52	0.29	0.56	0.51	0.53	0.73	0.16		0.000
#Teeth:IntPeri	-0.59	-0.69	-0.76	-0.78	-0.72	-0.73	-0.73	-0.77	-0.71	0.85	-0.20	0.50	-0.72	0.58	0.49	0.62	0.62	0.64	0.82	0.25	0.98	