

**SUPPLEMENTAL INFORMATION**

**MORPHOLOGICAL TRAIT VARIATION BETWEEN TWO  
POPULATIONS OF *CERCOSAURA SCHREIBERSII* IN SOUTHERN  
BRAZIL: INSIGHTS ON HABITAT-DRIVEN ADAPTATION**

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**TABLE S1.** Measurements by individual (mm).

<b>Museum</b>	<b>Accession</b>	<b>Collection</b>	<b>Habita</b>	<b>Sex</b>	<b>SVL</b>	<b>HW</b>	<b>PEC</b>	<b>PEL</b>									<b>HL</b>
<b>Numbers</b>	<b>origin</b>	<b>t</b>				<b>W</b>	<b>W</b>	<b>UL</b>	<b>RL</b>	<b>TMP</b>	<b>FLL</b>	<b>FL</b>	<b>TL</b>	<b>FMP</b>	<b>HLL</b>	<b>HH</b>	
<b>1276</b>	<b>FURG</b>	sand	female	38.43	7.69	5.81	5.35	3.10	3.37	3.16	9.63	3.59	3.68	5.93	13.20	3.54	7.87
<b>1397</b>	<b>FURG</b>	sand	female	40.50	6.17	7.25	5.50	3.84	3.45	3.94	11.23	3.89	4.01	5.79	13.69	4.39	8.29
<b>1039</b>	<b>FURG</b>	sand	male	34.08	5.67	6.74	5.18	3.65	3.11	3.06	9.82	3.66	3.65	5.73	13.04	4.15	7.50
<b>793</b>	<b>FURG</b>	sand	female	30.60	4.56	5.17	3.96	2.97	2.70	3.39	9.06	3.49	3.35	4.94	11.78	3.05	7.04
<b>1391</b>	<b>FURG</b>	sand	male	37.58	6.61	5.61	5.85	3.63	3.18	3.60	10.41	3.74	3.82	5.77	13.33	4.06	8.62
<b>1552</b>	<b>FURG</b>	sand	female	47.17	6.42	6.08	6.50	3.99	3.78	3.61	11.38	4.21	3.99	5.74	13.94	4.74	8.72
<b>1392</b>	<b>FURG</b>	sand	female	40.52	5.67	6.22	6.08	3.40	3.58	3.41	10.39	3.77	3.83	5.80	13.40	3.76	8.02
<b>1396</b>	<b>FURG</b>	sand	female	43.83	6.09	6.75	6.25	3.79	3.16	3.51	10.46	3.94	3.70	5.81	13.45	4.15	8.06
<b>1478</b>	<b>FURG</b>	sand	female	41.50	5.83	6.09	5.21	3.61	3.37	3.80	10.78	3.83	3.98	5.44	13.25	3.82	8.23
<b>1274</b>	<b>FURG</b>	sand	female	40.51	6.50	6.50	6.17	3.67	3.91	3.41	10.99	3.95	3.60	6.00	13.55	4.38	8.43
<b>1279</b>	<b>FURG</b>	sand	male	36.87	6.21	5.04	5.04	3.12	3.53	3.41	10.06	3.74	3.20	5.06	12.00	3.75	8.12

<b>1395</b>	<b>FURG</b>	sand	female	41.27	5.73	5.80	6.11	3.68	3.35	3.17	10.20	3.70	3.86	5.64	13.20	3.74	7.95
<b>1461</b>	<b>FURG</b>	sand	male	38.08	5.33	6.50	4.83	3.48	2.78	3.40	9.66	2.94	3.25	5.68	11.87	3.27	7.77
<b>5289</b>	<b>FURG</b>	sand	female	34.67	5.06	5.22	5.67	3.07	3.19	3.51	9.77	3.58	3.37	5.23	12.18	3.06	7.23
<b>1249</b>	<b>FURG</b>	sand	male	30.67	4.67	5.72	4.56	3.10	2.64	2.92	8.66	2.85	3.03	4.12	10.00	3.84	7.23
<b>2330</b>	<b>FURG</b>	sand	male	34.92	5.58	5.05	4.67	2.99	2.96	3.92	9.87	3.61	3.14	5.03	11.78	4.19	7.82
<b>2148</b>	<b>FURG</b>	sand	male	36.45	6.00	4.34	5.58	3.82	3.14	3.58	10.54	3.61	3.38	5.75	12.74	3.84	7.97
<b>1393</b>	<b>FURG</b>	sand	male	36.26	5.17	5.50	5.00	3.70	3.91	3.64	11.25	3.30	3.56	5.61	12.47	3.80	7.82
<b>2329</b>	<b>FURG</b>	sand	male	37.61	6.74	6.00	5.58	3.81	3.38	3.47	10.66	4.22	3.38	5.61	13.21	3.88	8.68
<b>1572</b>	<b>FURG</b>	sand	male	34.78	5.46	5.79	5.20	3.12	3.01	3.93	10.06	3.49	3.18	5.25	11.92	3.94	7.88
<b>1275</b>	<b>FURG</b>	sand	female	33.89	4.96	5.69	5.02	3.39	2.63	3.58	9.60	3.74	3.48	5.37	12.59	3.45	7.86
<b>1038</b>	<b>FURG</b>	sand	male	33.02	5.01	5.57	4.31	3.09	2.39	4.08	9.56	4.26	3.20	4.98	12.44	3.10	7.56
<b>1523</b>	<b>FURG</b>	sand	male	34.37	5.47	5.50	4.48	3.01	2.68	3.49	9.18	3.50	3.16	5.60	12.26	3.21	7.43
<b>1278</b>	<b>FURG</b>	sand	male	33.59	4.87	4.96	5.08	2.66	2.81	3.22	8.69	3.90	3.37	5.00	12.27	3.22	7.06
<b>6709</b>	<b>MCP - PUCRS</b>	cambis ol	male	38.14	6.22	5.81	4.75	2.89	2.78	4.15	9.82	4.08	3.85	5.85	13.78	4.26	8.6

<b>6923</b>	<b>MCP - PUCRS</b>	cambis ol	male	36.75	5.70	4.89	5.11	3.73	2.77	4.04	10.54	4.53	3.42	5.49	13.44	3.79	7.96
<b>10021</b>	<b>MCP - PUCRS</b>	cambis ol	male	37.53	6.03	5.21	5.04	4.04	3.59	4.17	11.80	4.13	3.67	6.32	14.12	4.18	7.71
<b>11143</b>	<b>MCP - PUCRS</b>	cambis ol	male	38.89	6.14	6.27	4.89	3.46	2.93	4.10	10.49	3.80	3.28	5.81	12.89	4.15	8.39
<b>18704</b>	<b>MCP - PUCRS</b>	cambis ol	male	36.65	6.33	4.67	5.33	3.48	2.79	4.30	10.57	3.33	3.19	6.51	13.03	3.93	7.42
<b>10917</b>	<b>MCP - PUCRS</b>	cambis ol	male	37.14	5.75	5.81	4.96	3.37	3.05	3.94	10.36	4.08	3.25	5.64	12.97	3.90	7.71
<b>19143</b>	<b>MCP - PUCRS</b>	cambis ol	male	33.69	5.15	5.52	5.48	3.21	3.01	4.23	10.45	3.95	3.58	6.53	14.06	3.51	7.33
<b>10918</b>	<b>MCP - PUCRS</b>	cambis ol	male	31.53	5.26	5.86	4.73	3.41	3.40	3.78	10.59	4.05	3.11	6.50	13.66	4.48	8.01
<b>10916</b>	<b>MCP - PUCRS</b>	cambis ol	male	33.01	6.45	5.30	4.73	2.77	2.77	3.05	8.59	2.93	2.62	5.17	10.72	3.80	6.52
<b>6924</b>	<b>MCP - PUCRS</b>	cambis ol	male	37.92	6.48	5.08	4.50	3.79	3.27	4.57	11.63	4.05	3.55	6.42	14.02	4.51	8.1
<b>6975</b>	<b>MCP -</b>	cambis	male	36.14	5.33	5.93	5.41	2.83	2.91	3.29	9.03	3.60	3.14	5.20	11.94	4.21	6.79

	<b>PUCRS</b>	ol															
	<b>MCP -</b>	cambis															
<b>10913</b>	<b>PUCRS</b>	ol	male	34.02	5.43	5.90	5.30	3.62	3.04	4.16	10.82	4.19	3.22	5.69	13.10	3.94	7.54
	<b>MCP -</b>	cambis															
<b>6977</b>	<b>PUCRS</b>	ol	female	43.59	5.34	5.33	5.17	3.51	3.31	3.95	10.77	3.39	2.98	5.66	12.03	3.90	7.98
	<b>MCP -</b>	cambis															
<b>6647</b>	<b>PUCRS</b>	ol	female	45.25	7.04	7.22	6.23	3.86	3.46	5.11	12.43	4.28	3.53	7.24	15.05	4.84	8.61
	<b>MCP -</b>	cambis															
<b>10982</b>	<b>PUCRS</b>	ol	female	37.82	5.50	5.71	6.06	3.69	3.19	3.78	10.66	4.08	3.22	5.47	12.77	3.94	7.26
	<b>MCP -</b>	cambis															
<b>10115</b>	<b>PUCRS</b>	ol	female	36.50	5.75	6.93	5.60	3.51	2.91	4.72	11.14	3.86	3.33	5.94	13.13	4.35	8.06
	<b>MCP -</b>	cambis															
<b>18980</b>	<b>PUCRS</b>	ol	female	45.18	6.40	6.30	5.61	3.29	3.53	4.20	11.02	4.34	3.87	6.60	14.81	3.70	8.71
	<b>MCP -</b>	cambis															
<b>9540</b>	<b>PUCRS</b>	ol	female	42.98	6.52	7.56	7.10	3.11	3.38	4.25	10.74	3.91	3.61	6.15	13.67	4.52	8.2
	<b>MCP -</b>	cambis															
<b>19131</b>	<b>PUCRS</b>	ol	female	46.67	6.26	6.78	7.00	3.73	3.25	4.62	11.60	4.81	4.18	6.80	15.79	4.23	9.18
	<b>MCP -</b>	cambis															
<b>6973</b>	<b>PUCRS</b>	ol	female	42.85	6.11	5.99	6.51	3.64	3.21	3.97	10.82	4.16	3.59	6.25	14.00	4.15	7.9

<b>18968</b>	<b>MCP - PUCRS</b>	cambis ol	female	41.27	5.61	5.80	5.54	3.70	3.38	4.26	11.34	4.25	3.44	5.74	13.43	4.11	8.22
<b>12306</b>	<b>MCP - PUCRS</b>	cambis ol	female	44.67	7.19	7.18	5.72	4.19	3.05	4.73	11.97	4.52	3.90	6.96	15.38	5.22	8.72
<b>18769</b>	<b>MCP - PUCRS</b>	cambis ol	female	41.35	6.33	7.03	3.36	3.72	3.82	4.46	12.00	3.89	3.28	5.75	12.92	4.51	8.4
<b>6706</b>	<b>MCP - PUCRS</b>	cambis ol	female	40.58	6.17	7.25	6.84	3.31	3.13	4.04	10.48	3.66	3.39	5.87	12.92	3.44	7.34
<b>11139</b>	<b>MCP - PUCRS</b>	cambis ol	female	42.68	6.59	7.18	5.89	3.41	3.24	3.94	10.59	3.94	3.21	5.22	12.37	4.27	7.32

**TABLE S2.** Loading values for the principal components analysis on size variables for each individual.

Habitat	Sex	PC1	PC2
Sand	Female	-0.23745	1.87637
Sand	Female	2.581198	0.880093
Sand	Female	-5.09374	-0.82193
Sand	Female	3.985688	1.867579
Sand	Female	0.662034	1.707597
Sand	Female	1.608547	1.497245
Sand	Female	0.957084	0.744079
Sand	Female	2.344662	1.797327
Sand	Female	0.301333	1.846189
Sand	Female	-2.99087	0.542602
Sand	Female	-2.33682	-0.54623
Sand	Male	-0.80402	0.966147
Sand	Male	1.016465	0.813562
Sand	Male	-1.63885	0.723847
Sand	Male	-2.55188	0.742678
Sand	Male	-6.15428	0.974556
Sand	Male	-2.51259	-0.77012
Sand	Male	-0.63415	-0.1979
Sand	Male	-0.42691	0.599285
Sand	Male	1.162483	0.54392
Sand	Male	-2.02462	-0.23104
Sand	Male	-3.23569	-2.11535
Sand	Male	-3.51995	-0.52408
Sand	Male	-4.33561	0.056938

Cambisol	Female	-0.76864	-0.03594
Cambisol	Female	5.907005	-1.03821
Cambisol	Female	-0.42805	-0.01394
Cambisol	Female	1.037112	-1.2545
Cambisol	Female	3.235572	0.097905
Cambisol	Female	2.667506	1.547688
Cambisol	Female	5.859362	-0.16663
Cambisol	Female	2.052689	0.342057
Cambisol	Female	1.581609	-0.69085
Cambisol	Female	6.088159	-1.17098
Cambisol	Female	2.035916	-1.07503
Cambisol	Female	0.245832	1.401739
Cambisol	Female	0.406896	1.171401
Cambisol	Male	0.433491	-0.90029
Cambisol	Male	-0.10567	-1.79852
Cambisol	Male	2.078496	-1.24263
Cambisol	Male	0.263426	-0.68733
Cambisol	Male	-0.68733	-1.44153
Cambisol	Male	-0.62957	-0.85088
Cambisol	Male	-0.45174	-1.51428
Cambisol	Male	0.002923	-1.56443
Cambisol	Male	-5.44028	0.803212
Cambisol	Male	2.096011	-2.19455
Cambisol	Male	-3.25256	0.740029
Cambisol	Male	-0.35026	-1.43686

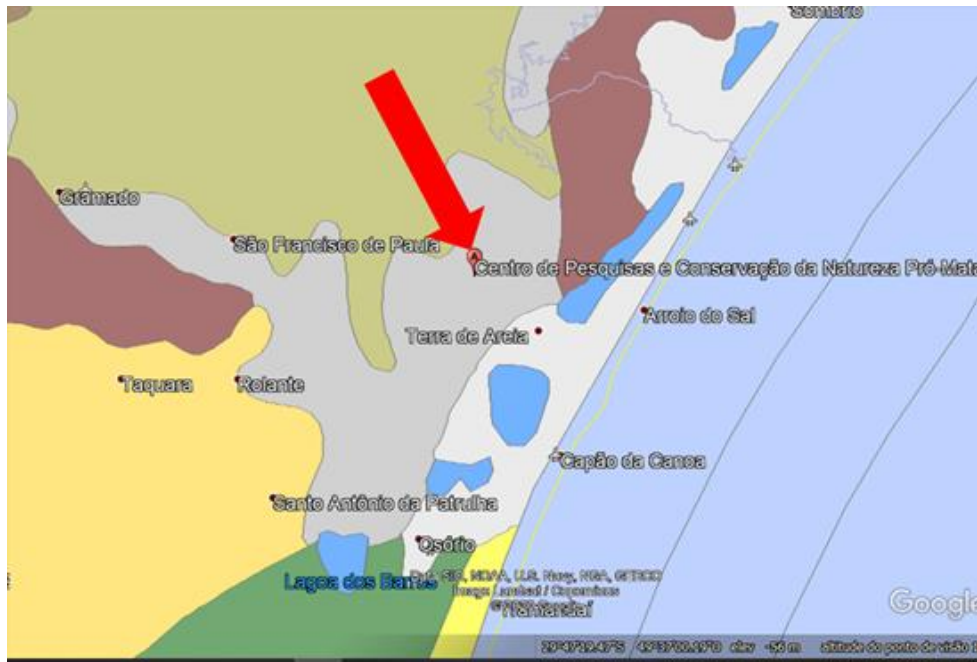


**TABLE S3.** Eigenvectors for each variable and cumulative percentages explained for each PC axis.

Measure	Prin1	Prin2
SVL	0.30077	0.27676
HW	0.24533	0.18564
PECW	0.20329	0.27221
PELW	0.2026	0.43641
UL	0.269	-0.05134
RL	0.2223	0.32895
TMP	0.23919	-0.53175
FLL	0.32676	-0.18405
FL	0.25983	-0.28327
TL	0.25322	0.21622
FMP	0.29405	-0.2089
HLL	0.33038	-0.15461
HH	0.26075	-0.04871
HL	0.29322	-0.00157

Number	Eigenvalue	Percent	Cum Percent
PC1	7.5502	53.93	53.93
PC2	1.3404	9.574	63.504



**FIGURE S1.** Maps showing soil classification at northern (A) and southern (B) sampling sites. Arrows show regions from which population was sampled. Colors indicate the soil type, based on Santos et al 2008. Digital shapes of maps were obtained from Brazilian federal agency at <https://visualizador.inde.gov.br/VisualizaCamada/31#>.