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Geographic ranges, richness patterns, and the effectiveness of conservation units on the protection of Brachycephalidae anurans in the Brazilian Atlantic Forest

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Appendix 1. Occurrence records for the genus *Brachycephalus*

Species	Latitude	Longitude
B_actaeus	-26.124722	-48.73
B_actaeus	-26.135833	-48.731667
B_actaeus	-26.201667	-48.693611
B_actaeus	-26.223222	-48.688556
B_actaeus	-26.2275	-48.691944
B_actaeus	-26.296389	-48.619442
B_actaeus	-26.297222	-48.674446
B_albolineatus	-26.51717	-49.05458
B_albolineatus	-26.516111	-49.053889
B_alipioi	-20.4	-41.016667
B_alipioi	-20.41154	-41.190711
B_alipioi	-20.473333	-41.01
B_alipioi	-20.50888	-41.024386
B_alipioi	-20.603611	-41.184722
B_alipioi	-20.67140007	-41.00690079
B_auroguttatus	-26.212222	-48.958056
B_boticario	-26.778333	-49.0325
B_brunneus	-25.233333	-48.833333
B_brunneus	-25.25	-48.81
B_brunneus	-25.3056	-49.0553
B_brunneus	-25.5306	-49.1956
B_bufonoides	-22.28190041	-42.53110123
B_coloratus	-25.453889	-49.0075
B_crispus	-23.254111	-45.032722
B_curupira	-25.701944	-49.062222
B_darkside	-20.778334	-42.483334
B_darkside	-20.877972	-42.52072
B_didactylus	-21	-41.216667
B_didactylus	-22.309646	-42.499051
B_didactylus	-22.414316	-42.614255
B_didactylus	-22.416667	-42.583333
B_didactylus	-22.433	-42.983
B_didactylus	-22.467172	-42.756916
B_didactylus	-22.48333	-43.6
B_didactylus	-22.4889	-43.6058
B_didactylus	-22.4908	-43.6068
B_didactylus	-22.5	-43.62
B_didactylus	-22.502222	-43.586944
B_didactylus	-22.575833	-43.028889
B_didactylus	-22.6	-43.4333
B_didactylus	-22.6	-43.01667
B_didactylus	-22.670475	-43.049864
B_didactylus	-22.946814	-43.291542
B_didactylus	-25.733333	-48.6
B_ephippium	-20.716667	-42.466667
B_ephippium	-22	-42.5

Species	Latitude	Longitude
B_ephippium	-22.31807	-42.84901
B_ephippium	-22.369822	-44.628469
B_ephippium	-22.412222	-42.965556
B_ephippium	-22.433	-42.983
B_ephippium	-22.443095	-44.598458
B_ephippium	-22.455864	-42.930917
B_ephippium	-22.463555	-44.598914
B_ephippium	-22.469167	-44.446667
B_ephippium	-22.48	-43.13
B_ephippium	-22.4806	-42.2042
B_ephippium	-22.482	-43.127
B_ephippium	-22.490203	-44.567911
B_ephippium	-22.496099	-44.563301
B_ephippium	-22.4961	-44.5633
B_ephippium	-22.496111	-44.563056
B_ephippium	-22.5	-44.56667
B_ephippium	-22.51083	-43.18444
B_ephippium	-22.51667	-43.16667
B_ephippium	-22.5167	-43.1667
B_ephippium	-22.525834	-43.0904
B_ephippium	-22.5667	-44.75
B_ephippium	-22.6	-45.18333
B_ephippium	-22.612608	-45.179607
B_ephippium	-22.64	-44.57
B_ephippium	-22.81455	-44.03333
B_ephippium	-22.817	-45.633
B_ephippium	-22.83131	-44.190069
B_ephippium	-22.840904	-45.520137
B_ephippium	-22.8708	-45.522499
B_ephippium	-22.8833	-46.9833
B_ephippium	-22.9	-43.2333
B_ephippium	-22.9028	-43.2075
B_ephippium	-22.903	-46.825
B_ephippium	-22.903056	-43.2075
B_ephippium	-22.9108	-43.1807
B_ephippium	-22.91667	-43.5
B_ephippium	-22.92606	-43.18529
B_ephippium	-22.93199	-43.473065
B_ephippium	-22.9333	-43.2333
B_ephippium	-22.939685	-43.228821
B_ephippium	-22.95	-43.21667
B_ephippium	-23.028381	-45.948214
B_ephippium	-23.05417	-44.7167
B_ephippium	-23.066667	-45.933333
B_ephippium	-23.07	-44.96
B_ephippium	-23.071389	-45.931131
B_ephippium	-23.071401	-45.933366
B_ephippium	-23.11	-46.55
B_ephippium	-23.110001	-46.549999
B_ephippium	-23.1169	-46.5503
B_ephippium	-23.141433	-46.559008
B_ephippium	-23.1667	-46.866699
B_ephippium	-23.17	-45.88
B_ephippium	-23.176409	-46.898468
B_ephippium	-23.1794	-45.8869
B_ephippium	-23.18	-46.52

Species	Latitude	Longitude
B_ephippium	-23.180278	-46.88
B_ephippium	-23.1833	-46.8667
B_ephippium	-23.1869	-46.5217
B_ephippium	-23.216667	-44.716667
B_ephippium	-23.226966	-46.540643
B_ephippium	-23.230635	-46.955926
B_ephippium	-23.232082	-46.956483
B_ephippium	-23.233611	-46.936806
B_ephippium	-23.233878	-46.935692
B_ephippium	-23.2369	-46.935799
B_ephippium	-23.24	-46.95
B_ephippium	-23.241287	-46.935616
B_ephippium	-23.243	-46.951
B_ephippium	-23.2489	-46.9533
B_ephippium	-23.41667	-46.65
B_ephippium	-23.493292	-46.196389
B_ephippium	-23.516667	-47.1
B_ephippium	-23.5228	-46.1883
B_ephippium	-23.523056	-46.188056
B_ephippium	-23.600278	-46.909722
B_ephippium	-23.603901	-46.919201
B_ephippium	-23.61667	-46.93333
B_ephippium	-23.776699	-47.006901
B_ephippium	-24.07	-46.82
B_ephippium	-24.074	-46.821
B_ephippium	-24.18	-46.78
B_ferruginus	-25.4769	-48.8344
B_ferruginus	-25.433333	-48.916667
B_fuscolineatus	-26.234958	-49.048183
B_fuscolineatus	-26.799444	-48.929722
B_garbeanus	-22.358333	-42.564167
B_garbeanus	-22.381111	-42.508611
B_guarani	-23.346667	-45.026667
B_hermogenesi	-23.216667	-44.716667
B_hermogenesi	-23.4300031	-45.06999969
B_hermogenesi	-23.4302778	-45.06972222
B_hermogenesi	-23.430278	-45.069722
B_hermogenesi	-23.433333	-44.866667
B_hermogenesi	-23.53000069	-45.84000015
B_hermogenesi	-23.653056	-45.889167
B_hermogenesi	-23.783333	-46.316667
B_hermogenesi	-23.95	-47.45
B_hermogenesi	-23.96	-47.5
B_hermogenesi	-24.083333	-48.366667
B_hermogenesi	-24.32	-46.99
B_hermogenesi	-24.45	-47.233333
B_hermogenesi	-24.58	-48.59
B_hermogenesi	-25.15	-48.266667
B_hermogenesi	-25.150571	-48.300754
B_hermogenesi	-25.158617	-48.300124
B_hermogenesi	-25.15885	-48.298936
B_hermogenesi	-25.5347	-49.2064
B_ibitinga	-23.741944	-46.138889
B_ibitinga	-23.746944	-46.128333
B_ibitinga	-23.781944	-46.295
B_ibitinga	-23.796944	-46.671389

Species	Latitude	Longitude
B_ibitinga	-23.856389	-46.4575
B_ibitinga	-23.982222	-46.593056
B_ibitinga	-24.01	-46.7825
B_ibitinga	-24.035278	-46.929167
B_izecksohni	-25.4769	-48.8344
B_izecksohni	-25.233333	-48.833333
B_leopardus	-25.901944	-48.996389
B_margaritatus	-22.504171	-43.290251
B_margaritatus	-22.417455	-43.114789
B_margaritatus	-22.502222	-43.586944
B_mariaeterezae	-26.114167	-49.0625
B_mirissimus	-26.628056	-48.930556
B_nodoterga	-23.3700084	-45.43999863
B_nodoterga	-23.45	-46.64
B_nodoterga	-23.472486	-46.790422
B_nodoterga	-23.54	-46.63
B_nodoterga	-23.633301	-45.866699
B_nodoterga	-23.768596	-46.282764
B_nodoterga	-23.769864	-46.290328
B_nodoterga	-23.7700046	-45.34999847
B_olivaceus	-26.233167	-49.054222
B_olivaceus	-26.13982	-49.03218
B_olivaceus	-26.114167	-49.0625
B_pernix	-25.35	-49.083333
B_pernix	-25.36560059	-49.07690048
B_pernix	-25.365833	-49.076667
B_pernix	-25.39	-49
B_pernix	-26.13666	-48.73544
B_pitanga	-23.2199993	-45.3100014
B_pitanga	-23.22	-45.31
B_pitanga	-23.222709	-45.30923
B_pitanga	-23.2278677	-45.3238279
B_pitanga	-23.228707	-45.323899
B_pitanga	-23.229038	-45.32286
B_pitanga	-23.229226	-45.323005
B_pitanga	-23.229456	-45.321713
B_pitanga	-23.318464	-45.164585
B_pitanga	-23.319124	-45.164709
B_pitanga	-23.343268	-45.127325
B_pitanga	-23.344444	-45.1375
B_pitanga	-23.3445	-45.1329
B_pitanga	-23.351093	-45.135304
B_pitanga	-23.351944	-45.133611
B_pitanga	-23.377168	-45.148076
B_pitanga	-23.437076	-45.199725
B_pombali	-25.8828	-48.5747
B_pombali	-25.65	-48.85
B_pulex	-15.182533	-39.345388
B_pulex	-15.383333	-39.55
B_pulex	-15.2509	-39.2945
B_pulex	-12.7044	-38.3881
B_puri	-20.466667	-41.734167
B_quiririensis	-26.02669907	-48.85499954
B_quiririensis	-26.02537	-48.97356
B_quiririensis	-26.021389	-48.996389
B_rotenbergae	-22.903139	-46.016389

Species	Latitude	Longitude
B_sulfuratus	-24.227113	-48.469212
B_sulfuratus	-24.5799992	-48.59000015
B_sulfuratus	-25.53470039	-49.20640182
B_sulfuratus	-25.783333	-48.9
B_sulfuratus	-26.02669	-48.86751
B_sulfuratus	-26.123444	-48.740444
B_sulfuratus	-26.20169	-48.69376
B_sulfuratus	-26.2275	-48.691944
B_sulfuratus	-26.24329948	-48.63809967
B_toby	-23.37	-45.44
B_toby	-23.43	-45.07
B_toby	-23.45	-45.183333
B_tridactylus	-25.081667	-48.331389
B_tridactylus	-25.148092	-48.304141
B_tridactylus	-25.15	-48.266667
B_verrucosus	-26.212222	-48.958056
B_vertebralis	-23.07	-44.96
B_vertebralis	-23.181732	-44.761475
B_vertebralis	-23.216667	-44.8
B_vertebralis	-23.21780014	-44.71310043
B_vertebralis	-23.21805556	-44.71305556
B_vertebralis	-23.218056	-44.713056
B_vertebralis	-23.22	-45.31
B_vertebralis	-23.336317	-45.145925
B_vertebralis	-23.433901	-45.071098

Appendix 2. Occurrence records for the genus *Ischnocnema*

Species	Latitude	Longitude
I_abdita	-19.845556	-40.558889
I_abdita	-19.845639	-40.558917
I_abdita	-19.855	-40.563056
I_abdita	-19.868056	-40.535
I_abdita	-19.869444	-40.534722
I_abdita	-19.870194	-40.560083
I_abdita	-19.870278	-40.56
I_abdita	-19.877167	-40.565417
I_abdita	-19.88	-40.578889
I_abdita	-19.886667	-40.574603
I_abdita	-19.9075	-40.518333
I_abdita	-19.909889	-40.542167
I_abdita	-19.91	-40.542222
I_abdita	-19.9325	-40.406667
I_abdita	-19.933475	-40.599291
I_abdita	-19.935556	-40.548889
I_abdita	-19.9356	-40.6003
I_abdita	-19.93560028	-40.60029984
I_abdita	-19.952778	-40.525
I_abdita	-19.953836	-40.622217
I_abdita	-20.040556	-40.746111
I_abdita	-20.12859917	-40.30780029
I_abdita	-20.2639	-40.42
I_abdita	-20.36330032	-40.65919876
I_abdita	-20.401944	-41.023056
I_abdita	-20.411667	-40.695833

Species	Latitude	Longitude
I_abdita	-20.444583	-41.715694
I_abdita	-20.489103	-41.169936
I_abdita	-20.510833	-41.007778
I_abdita	-20.516667	-41.116667
I_abdita	-20.533333	-40.8
I_abdita	-20.54140091	-41.66719818
I_abdita	-20.63500023	-40.74969864
I_abdita	-20.911176	-41.199726
I_abdita	-21.0642	-41.3664
I_bocaina	-22.8056	-44.3682
I_bolbodactyla	-22.922604	-44.442468
I_bolbodactyla	-23	-44.3
I_bolbodactyla	-23.21667	-44.71667
I_bolbodactyla	-23.327592	-44.849721
I_bolbodactyla	-23.3588	-44.8507
I_bolbodactyla	-23.43	-45.07
I_bolbodactyla	-23.43000031	-45.06999969
I_bolbodactyla	-23.43027778	-45.06972222
I_bolbodactyla	-23.430278	-45.069722
I_bolbodactyla	-23.62000084	-45.40999985
I_colibri	-19.888056	-40.62
I_colibri	-19.906944	-40.5525
I_colibri	-19.907583	-40.518278
I_colibri	-19.907839	-40.518297
I_colibri	-19.91025	-40.552444
I_colibri	-19.93560028	-40.60029984
I_colibri	-20.164408	-40.933461
I_concolor	-22.28389931	-44.86999893
I_concolor	-22.2839	-44.87
I_concolor	-22.36	-44.734722
I_concolor	-22.4961	-44.5633
I_crassa	-19.82425	-40.538778
I_epipeda	-19.83	-40.58
I_epipeda	-19.91667	-40.6
I_epipeda	-19.933214	-40.599317
I_erythromera	-22.2819	-42.5311
I_erythromera	-22.432841	-43.015144
I_erythromera	-22.433	-42.983
I_erythromera	-22.483667	-43.063434
I_feioi	-20.419861	-41.846861
I_feioi	-20.43330002	-41.86830139
I_feioi	-20.62000084	-41.68579865
I_feioi	-20.84000015	-42.65719986
I_feioi	-20.892972	-42.546833
I_garciai	-21.016111	-42.443611
I_gehrti	-23.782	-46.322
I_gualteri	-22.4333	-42.9833
I_gualteri	-22.453318	-42.980289
I_gualteri	-22.454098	-42.98468
I_guentheri	-19.906	-40.562125
I_guentheri	-19.935556	-40.600278
I_guentheri	-20.1239	-42.0014
I_guentheri	-20.24555556	-46.36555556
I_guentheri	-20.294944	-40.523028
I_guentheri	-20.3633	-40.6592
I_guentheri	-20.4	-41.016667
I_guentheri	-20.412778	-40.683056
I_guentheri	-20.516667	-41.116667
I_guentheri	-20.580111	-41.770278
I_guentheri	-20.603611	-41.184722
I_guentheri	-20.635	-40.7497
I_guentheri	-20.6667	-42.5208

Species	Latitude	Longitude
I_guentheri	-20.754167	-42.881667
I_guentheri	-20.848889	-41.112778
I_guentheri	-21.322417	-42.273083
I_guentheri	-21.7833	-48.1667
I_guentheri	-21.8425	-43.7931
I_guentheri	-21.866667	-41.9
I_guentheri	-21.981861	-43.872444
I_guentheri	-22.08919907	-43.82780075
I_guentheri	-22.12999916	-48.50999832
I_guentheri	-22.2819	-42.5311
I_guentheri	-22.2827	-43.3458
I_guentheri	-22.401142	-42.512253
I_guentheri	-22.41222222	-42.96555556
I_guentheri	-22.43	-42.98
I_guentheri	-22.4492	-45.1653
I_guentheri	-22.482	-43.127
I_guentheri	-22.505	-43.178333
I_guentheri	-22.51667	-43.16667
I_guentheri	-22.533333	-42.933333
I_guentheri	-22.56667	-44.75
I_guentheri	-22.583333	-43.233333
I_guentheri	-22.633333	-44.65
I_guentheri	-22.64	-44.57
I_guentheri	-22.669444	-45.455556
I_guentheri	-22.67027778	-44.43972222
I_guentheri	-22.69	-45.474
I_guentheri	-22.72999954	-45.59000015
I_guentheri	-22.75555556	-46.14444444
I_guentheri	-22.7581	-44.6125
I_guentheri	-22.803889	-45.287222
I_guentheri	-22.817	-45.633
I_guentheri	-22.82	-44.65
I_guentheri	-22.85	-45.73333
I_guentheri	-22.8642	-46.035
I_guentheri	-22.8991667	-43.8977778
I_guentheri	-22.8994444	-43.8963889
I_guentheri	-22.9	-43.2333
I_guentheri	-22.9005556	-43.8947222
I_guentheri	-22.901944	-43.0925
I_guentheri	-22.9028	-43.2075
I_guentheri	-22.90305556	-43.2075
I_guentheri	-22.906944	-46.001667
I_guentheri	-22.91667	-43.5
I_guentheri	-22.9333	-43.2333
I_guentheri	-22.9397222	-43.8830556
I_guentheri	-22.948468	-43.287698
I_guentheri	-22.95	-43.2333
I_guentheri	-22.96342	-43.24466
I_guentheri	-22.98333	-43.23333
I_guentheri	-23	-44.3
I_guentheri	-23.0052	-43.3675
I_guentheri	-23.06666667	-45.93333333
I_guentheri	-23.07	-44.96
I_guentheri	-23.10174	-44.84102
I_guentheri	-23.11	-46.55
I_guentheri	-23.11000061	-46.54999924
I_guentheri	-23.11027778	-46.54972222
I_guentheri	-23.1169	-46.5503
I_guentheri	-23.17000008	-45.88000107
I_guentheri	-23.18000031	-46.88000107
I_guentheri	-23.18027778	-46.88
I_guentheri	-23.1869	-46.5217

Species	Latitude	Longitude
I_guentheri	-23.21667	-44.71667
I_guentheri	-23.2178	-44.7131
I_guentheri	-23.2278677	-45.3238279
I_guentheri	-23.24527778	-46.93694444
I_guentheri	-23.245278	-46.936944
I_guentheri	-23.335833	-45.145833
I_guentheri	-23.351093	-45.135304
I_guentheri	-23.37722222	-46.35222222
I_guentheri	-23.37777778	-46.3525
I_guentheri	-23.43000031	-45.06999969
I_guentheri	-23.43027778	-45.06972222
I_guentheri	-23.4339	-45.0711
I_guentheri	-23.4352	-45.0733
I_guentheri	-23.52305556	-46.18805556
I_guentheri	-23.53	-45.84
I_guentheri	-23.53000069	-45.84000015
I_guentheri	-23.53027778	-45.84
I_guentheri	-23.53333	-46.61667
I_guentheri	-23.54	-46.63
I_guentheri	-23.6	-46.91
I_guentheri	-23.63	-45.83
I_guentheri	-23.630833	-45.869722
I_guentheri	-23.633	-54.833
I_guentheri	-23.65999985	-46.45999908
I_guentheri	-23.66	-46.46
I_guentheri	-23.666	-45.908
I_guentheri	-23.69027778	-46.56
I_guentheri	-23.71	-47.42
I_guentheri	-23.71714	-45.703138
I_guentheri	-23.7638579	-45.7572707
I_guentheri	-23.77	-45.35
I_guentheri	-23.781187	-46.322872
I_guentheri	-23.783333	-46.316666
I_guentheri	-23.833	-45.283
I_guentheri	-23.89	-46.42
I_guentheri	-23.89222	-46.3333
I_guentheri	-23.95	-47.45
I_guentheri	-23.958067	-47.244433
I_guentheri	-23.96	-46.39
I_guentheri	-23.989333	-47.26585
I_guentheri	-24	-46.4
I_guentheri	-24.015716	-47.965876
I_guentheri	-24.055517	-47.994515
I_guentheri	-24.059476	-47.9969967
I_guentheri	-24.0621	-47.954383
I_guentheri	-24.085857	-48.026984
I_guentheri	-24.09	-48.36
I_guentheri	-24.09000015	-48.36000061
I_guentheri	-24.27	-47.23
I_guentheri	-24.2999	-46.9999
I_guentheri	-24.32	-46.99
I_guentheri	-24.38	-47.919722
I_guentheri	-24.444	-47.2523
I_guentheri	-24.466667	-48.733333
I_guentheri	-24.567	-47.233
I_guentheri	-24.57	-47.23
I_guentheri	-24.57999992	-48.59000015
I_guentheri	-24.58	-48.59
I_guentheri	-24.7	-47.55
I_guentheri	-24.70000076	-47.54999924
I_guentheri	-25.15	-48.266667
I_guentheri	-25.22	-49.3478

Species	Latitude	Longitude
I_guentheri	-25.25	-49.0833
I_guentheri	-25.4	-48.9742
I_guentheri	-25.4769	-48.8344
I_guentheri	-25.4819	-48.8295
I_guentheri	-25.5306	-49.1956
I_guentheri	-25.5347	-49.2064
I_guentheri	-25.6956	-51.6597
I_guentheri	-25.69560051	-51.65969849
I_guentheri	-25.88279915	-48.5746994
I_guentheri	-25.8828	-48.5747
I_guentheri	-25.9281	-49.1989
I_guentheri	-26.0837	-49.8043
I_guentheri	-26.2	-48.93
I_guentheri	-26.25055556	-49.37833333
I_guentheri	-26.250556	-49.378333
I_guentheri	-26.3302937	-49.3491403
I_guentheri	-26.5153883	-49.064048
I_guentheri	-26.7995199	-48.9308206
I_guentheri	-26.8997	-48.8272
I_guentheri	-26.905	-49.1777778
I_guentheri	-26.9194	-49.0661
I_guentheri	-27.038296	-54.66722
I_guentheri	-27.5936	-48.5027
I_guentheri	-27.5967	-48.5492
I_guentheri	-27.67250061	-49.02170181
I_guentheri	-27.6939	-48.8236
I_guentheri	-27.7333	-48.9333
I_guentheri	-27.89920044	-50.76079941
I_guentheri	-27.9014	-48.9292
I_guentheri	-28.436179	-50.309013
I_guentheri	-28.6667	-49.5667
I_guentheri	-29.33530045	-49.72689819
I_guentheri	-29.44809914	-50.58359909
I_guentheri	-29.4481	-50.5836
I_guentheri	-29.45	-50.2166667
I_guentheri	-29.4544231	-50.5732619
I_guentheri	-29.5047833	-50.2390333
I_guentheri	-29.675	-50.2072
I_henselii	-23.1414332	-46.5590082
I_henselii	-23.222709	-45.30923
I_henselii	-23.54000092	-46.63000107
I_henselii	-23.583794	-46.478332
I_henselii	-23.80775	-46.58219
I_henselii	-23.958067	-47.244433
I_henselii	-23.988067	-46.743583
I_henselii	-23.989062	-46.7525034
I_henselii	-23.989333	-47.26585
I_henselii	-24.059476	-47.9969967
I_henselii	-24.0621	-47.954383
I_henselii	-24.09000015	-48.36000061
I_henselii	-24.227104	-48.469198
I_henselii	-24.227171	-48.469233
I_henselii	-24.2511	-49.7058
I_henselii	-24.2555	-49.7131
I_henselii	-24.5160358	-48.682066
I_henselii	-24.5752	-49.9241
I_henselii	-24.6665	-50.0029
I_henselii	-24.983333	-48.616667
I_henselii	-25.064361	-49.964917
I_henselii	-25.15	-48.266667
I_henselii	-25.24	-49.034167
I_henselii	-25.283333	-49.033333

Species	Latitude	Longitude
I_henselii	-25.340478	-48.909671
I_henselii	-25.352	-50.5478
I_henselii	-25.4672	-50.6511
I_henselii	-25.498106	-48.981513
I_henselii	-25.5306	-49.1956
I_henselii	-25.5347	-49.2064
I_henselii	-25.6525	-49.3122
I_henselii	-25.9273	-49.1791
I_henselii	-25.9378942	-48.9286063
I_henselii	-26.0837	-49.8043
I_henselii	-26.1263	-48.5749
I_henselii	-26.20169	-48.69376
I_henselii	-26.2199036	-48.6839212
I_henselii	-26.5153883	-49.064048
I_henselii	-26.51717	-49.05458
I_henselii	-26.7907	-51.9556
I_henselii	-26.84	-51.988
I_henselii	-26.8702	-51.7918
I_henselii	-26.9194	-49.0661
I_henselii	-27.0067	-51.74
I_henselii	-27.0538137	-49.0859059
I_henselii	-27.111856	-49.211756
I_henselii	-27.28280067	-50.58440018
I_henselii	-27.51827778	-48.51230556
I_henselii	-27.5967	-48.5492
I_henselii	-27.621111	-52.110556
I_henselii	-27.733556	-48.811724
I_henselii	-27.89920044	-50.76079941
I_henselii	-27.913611	-52.8225
I_henselii	-27.913889	-52.815833
I_henselii	-28.041944	-52.224444
I_henselii	-28.185278	-49.391944
I_henselii	-28.35890007	-49.29140091
I_henselii	-28.3952778	-49.5294444
I_henselii	-28.5121994	-50.93389893
I_henselii	-28.5122	-50.9339
I_henselii	-28.8286111	-49.9155556
I_henselii	-29.0722222	-49.9894444
I_henselii	-29.32027778	-50.20361111
I_henselii	-29.32361111	-50.20805556
I_henselii	-29.33530045	-49.72689819
I_henselii	-29.35	-49.75
I_henselii	-29.38333333	-50.38333333
I_henselii	-29.44666667	-50.58
I_henselii	-29.44809914	-50.58359909
I_henselii	-29.45	-50.21666667
I_henselii	-29.480962	-50.174289
I_henselii	-29.5047833	-50.2390333
I_henselii	-29.79000092	-50.43500137
I_henselii	-29.80444444	-50.93138889
I_hoehnei	-24.015716	-47.965876
I_hoehnei	-23.65999985	-46.52999878
I_hoehnei	-23.63	-45.83
I_hoehnei	-23.71	-47.42
I_hoehnei	-23.71667	-46.41667
I_holti	-22.137806	-44.668215
I_holti	-22.28389931	-44.86999893
I_holti	-22.2839	-44.87
I_holti	-22.360943	-44.742324
I_holti	-22.367	-44.733
I_holti	-22.368889	-44.748611
I_holti	-22.37	-44.73

Species	Latitude	Longitude
I_holti	-22.41381	-44.603325
I_holti	-22.417355	-44.881513
I_holti	-22.42983	-44.619062
I_holti	-22.45	-43
I_holti	-22.49611111	-44.56305556
I_holti	-22.61	-45.17
I_holti	-22.803889	-45.287222
I_holti	-22.906944	-46.001667
I_holti	-23.66	-46.52972222
I_izecksohni	-18.4658	-43.3067
I_izecksohni	-19.0372	-43.425
I_izecksohni	-19.2156	-43.3764
I_izecksohni	-19.6192	-43.2269
I_izecksohni	-19.826502	-43.310922
I_izecksohni	-19.88	-43.6697
I_izecksohni	-19.8864	-43.8067
I_izecksohni	-19.916667	-43.933333
I_izecksohni	-19.9356	-40.6003
I_izecksohni	-19.9458	-43.4872
I_izecksohni	-19.949055	-43.905291
I_izecksohni	-19.9672	-43.8042
I_izecksohni	-19.9778	-42.1397
I_izecksohni	-19.98559952	-43.84669876
I_izecksohni	-20	-43.866667
I_izecksohni	-20.00558	-43.727655
I_izecksohni	-20.0747	-43.4075
I_izecksohni	-20.0875	-43.7894
I_izecksohni	-20.1239	-42.0014
I_izecksohni	-20.1967	-44.4211
I_izecksohni	-20.2533	-43.8014
I_izecksohni	-20.2875	-43.5081
I_izecksohni	-20.360436	-43.511485
I_izecksohni	-20.3778	-43.4161
I_izechsohni	-20.419111	-41.847972
I_izecksohni	-20.419167	-41.846389
I_izechsohni	-20.419278	-41.851806
I_izechsohni	-20.419778	-41.849222
I_izechsohni	-20.419861	-41.846861
I_izechsohni	-20.420167	-41.849139
I_izecksohni	-20.43330002	-41.86830139
I_izecksohni	-20.499611	-42.095278
I_izecksohni	-20.4997	-43.8578
I_izecksohni	-20.5208	-43.6919
I_izechsohni	-20.59425	-41.768111
I_izecksohni	-20.6036	-41.1847
I_izecksohni	-20.62000084	-41.68579865
I_izecksohni	-20.6667	-42.5208
I_izecksohni	-20.75416667	-42.88166667
I_izecksohni	-21.016721	-42.441349
I_izecksohni	-21.07424	-42.49233
I_izecksohni	-21.97675	-44.602002
I_izechsohni	-21.978352	-43.857985
I_izechsohni	-21.981861	-43.872444
I_izechsohni	-21.9857	-43.93825
I_izechsohni	-22.0238	-43.9957
I_izechsohni	-22.0431	-43.9648
I_izechsohni	-22.0804	-44.08
I_izechsohni	-22.0808	-44.0911
I_izechsohni	-22.0843	-44.0996
I_izechsohni	-22.087	-44.0826
I_izecksohni	-22.08919907	-43.82780075
I_izechsohni	-22.098	-44.0989

Species	Latitude	Longitude
L_izecksohni	-22.436384	-45.75254
L_izecksohni	-22.4492	-45.1653
L_juipoca	-13.890278	-47.045278
L_juipoca	-14.0694	-42.475
L_juipoca	-16.5594	-42.8897
L_juipoca	-16.65	-48.6
L_juipoca	-17.0833	-42.6925
L_juipoca	-18.1092	-44.2669
L_juipoca	-18.412893	-46.413138
L_juipoca	-18.4658	-43.3067
L_juipoca	-19.2156	-43.3764
L_juipoca	-19.5136	-43.745
L_juipoca	-19.88	-43.6697
L_juipoca	-19.9208	-43.9378
L_juipoca	-19.9458	-43.4872
L_juipoca	-19.9594	-43.4153
L_juipoca	-19.9856	-43.8467
L_juipoca	-20.0492	-44.2739
L_juipoca	-20.0703	-44.3017
L_juipoca	-20.0747	-43.4075
L_juipoca	-20.083333	-43.466667
L_juipoca	-20.0875	-43.7894
L_juipoca	-20.124846	-43.49511
L_juipoca	-20.1433	-44.1997
L_juipoca	-20.1967	-44.4211
L_juipoca	-20.2533	-43.8014
L_juipoca	-20.2875	-43.5081
L_juipoca	-20.3778	-43.4161
L_juipoca	-20.49970055	-43.85779953
L_juipoca	-20.770013	-44.575029
L_juipoca	-21.51110077	-44.90330124
L_juipoca	-21.709511	-43.885898
L_juipoca	-21.75791	-43.359073
L_juipoca	-21.78779984	-46.56140137
L_juipoca	-21.78805556	-46.56138889
L_juipoca	-21.97675	-44.602002
L_juipoca	-21.984167	-43.913361
L_juipoca	-21.9857	-43.93825
L_juipoca	-22.00482	-43.889028
L_juipoca	-22.0238	-43.9957
L_juipoca	-22.0804	-44.08
L_juipoca	-22.0892	-43.8278
L_juipoca	-22.098	-44.0989
L_juipoca	-22.184058	-45.929322
L_juipoca	-22.293974	-44.888409
L_juipoca	-22.4967	-44.438391
L_juipoca	-22.61	-45.17
L_juipoca	-22.61333333	-45.16527778
L_juipoca	-22.66	-50.409722
L_juipoca	-22.833333	-46.966667
L_juipoca	-22.8833	-46.9833
L_juipoca	-22.898244	-46.968177
L_juipoca	-22.89999962	-47.06000137
L_juipoca	-22.9	-47.06
L_juipoca	-23.06999969	-44.95999908
L_juipoca	-23.07	-44.96
L_juipoca	-23.110278	-46.549722
L_juipoca	-23.1169	-46.5503
L_juipoca	-23.18	-46.88
L_juipoca	-23.18000031	-46.88000107
L_juipoca	-23.18027778	-46.88
L_juipoca	-23.1869	-46.5217

Species	Latitude	Longitude
I_juipoca	-23.22583333	-46.91361111
I_juipoca	-23.36	-46.74
I_juipoca	-23.36000061	-46.74000168
I_juipoca	-23.37777778	-46.3525
I_karst	-20.32611111	-45.58694444
I_lactea	-19.7897	-42.1392
I_lactea	-20.0747	-43.4075
I_lactea	-20.1239	-42.0014
I_lactea	-20.4333	-41.8683
I_lactea	-22.0238	-43.9957
I_lactea	-22.0804	-44.08
I_lactea	-22.098	-44.0989
I_lactea	-22.4122	-42.9656
I_lactea	-22.429122	-42.905129
I_lactea	-22.4333	-42.9833
I_lactea	-22.4492	-45.1653
I_lactea	-22.469167	-44.446667
I_lactea	-22.4961	-44.5633
I_lactea	-22.496111	-44.563056
I_lactea	-23.642342	-45.694222
I_lactea	-23.66	-46.52972222
I_lactea	-23.71	-47.42
I_lactea	-23.8544	-46.1386
I_lactea	-23.96	-47.5
I_lactea	-23.962222	-46.719444
I_lactea	-23.98591	-46.742788
I_lactea	-25.15	-48.266667
I_lactea	-25.8828	-48.5747
I_lactea	-27.598714	-48.494744
I_manezinho	-26.1169	-48.6161
I_manezinho	-26.20169	-48.69376
I_manezinho	-26.2199036	-48.6839212
I_manezinho	-26.2433	-48.6381
I_manezinho	-26.25029945	-49.37860107
I_manezinho	-26.9194	-49.0661
I_manezinho	-27.51827778	-48.51230556
I_manezinho	-27.5936	-48.5027
I_manezinho	-27.5967	-48.5492
I_manezinho	-27.59670067	-48.54919815
I_manezinho	-27.596944	-48.549167
I_manezinho	-27.59694444	-48.54916667
I_manezinho	-27.598714	-48.494744
I_manezinho	-27.599048	-48.5187
I_manezinho	-27.608333	-48.508333
I_manezinho	-27.609017	-48.500284
I_manezinho	-27.709815	-48.774867
I_manezinho	-27.7258786	-48.5075033
I_manezinho	-27.8166667	-48.5666667
I_manezinho	-27.899574	-48.932786
I_manezinho	-27.9014	-48.9292
I_melanopygia	-22.61	-45.17
I_melanopygia	-22.364838	-44.625715
I_melanopygia	-22.351944	-44.735556
I_melanopygia	-22.331667	-44.539444
I_melanopygia	-22.2839	-44.87
I_melanopygia	-22.28389931	-44.86999893
I_nanahallux	-21.876667	-41.915833
I_nasuta	-23.038078	-44.689339
I_nasuta	-22.442508	-44.582243
I_nasuta	-22.43	-42.98
I_nasuta	-22.429122	-42.905129
I_nasuta	-22.41222222	-42.96555556

Species	Latitude	Longitude
I_nasuta	-22.376249	-42.533768
I_nasuta	-22.323546	-44.555059
I_nasuta	-22.289232	-42.670953
I_nasuta	-22.28389931	-44.86999893
I_nasuta	-22.2819	-42.5311
I_nasuta	-22.2667	-42.5333
I_nasuta	-21.943527	-43.446702
I_nasuta	-21.589952	-43.277408
I_nasuta	-21.563056	-43.526667
I_nasuta	-20.516666	-41.9
I_nasuta	-20.48361111	-40.99055556
I_nasuta	-20.48305556	-40.99
I_nasuta	-20.43330002	-41.86830139
I_nasuta	-20.157222	-42.023168
I_nasuta	-19.909889	-40.542167
I_nasuta	-19.888611	-40.545556
I_nasuta	-19.8880703	-40.5850026
I_nigriventris	-23.8667	-46.4667
I_nigriventris	-23.8544	-46.1386
I_nigriventris	-23.689075	-45.902182
I_nigriventris	-23.66	-46.52972222
I_nigriventris	-23.66	-46.46
I_nigriventris	-22.5	-44.56667
I_otavioi	-23.046988	-43.530824
I_otavioi	-23.0052	-43.3675
I_otavioi	-22.939685	-43.228821
I_otavioi	-22.9333	-43.2333
I_otavioi	-22.908062	-42.781156
I_otavioi	-22.9028	-43.2075
I_otavioi	-22.901944	-43.0925
I_otavioi	-22.9005556	-43.8947222
I_otavioi	-22.9	-43.2333
I_otavioi	-22.8994444	-43.8969444
I_otavioi	-22.839722	-44.207778
I_otavioi	-22.806011	-43.490469
I_otavioi	-22.78333	-44.75
I_otavioi	-22.681693	-42.402864
I_otavioi	-22.621135	-43.891168
I_otavioi	-22.595821	-43.22578
I_otavioi	-22.55	-42.033333
I_otavioi	-22.533333	-42.933333
I_otavioi	-22.482704	-44.337063
I_otavioi	-22.467723	-42.227093
I_otavioi	-22.444148	-42.147541
I_otavioi	-22.442774	-44.082054
I_otavioi	-22.40897	-42.548794
I_otavioi	-22.404922	-42.611885
I_otavioi	-22.382124	-41.809532
I_otavioi	-22.060602	-42.060691
I_otavioi	-22.047625	-42.524729
I_otavioi	-21.905078	-41.896332
I_otavioi	-21.866667	-41.9
I_otavioi	-20.43330002	-41.86830139
I_otavioi	-20.419028	-41.847528
I_oea	-22.2825	-42.531389
I_oea	-21.013611	-42.446667
I_oea	-20.683303	-40.946975
I_oea	-20.63500023	-40.74969864
I_oea	-20.635	-40.7497
I_oea	-20.533333	-40.8
I_oea	-20.516667	-41.116667
I_oea	-20.510833	-41.007778

Species	Latitude	Longitude
I_oea	-20.4	-41.016667
I_oea	-20.28111111	-40.52194444
I_oea	-20.082088	-42.067814
I_oea	-19.967192	-40.624886
I_oea	-19.96	-40.52
I_oea	-19.953836	-40.622217
I_oea	-19.95	-40.533333
I_oea	-19.949014	-40.506532
I_oea	-19.936389	-40.600278
I_oea	-19.93560028	-40.60029984
I_oea	-19.935556	-40.600278
I_oea	-19.935556	-40.548889
I_oea	-19.935472	-40.548944
I_oea	-19.932064	-40.591044
I_oea	-19.930361	-40.551
I_oea	-19.93	-40.550833
I_oea	-19.929917	-40.550806
I_oea	-19.9167	-40.6
I_oea	-19.913	-40.516222
I_oea	-19.911639	-40.516111
I_oea	-19.911528	-40.516111
I_oea	-19.911286	-40.558061
I_oea	-19.91	-40.542222
I_oea	-19.903056	-40.545556
I_oea	-19.89935	-40.54034
I_oea	-19.889917	-40.542167
I_oea	-19.888753	-40.5457
I_oea	-19.886667	-40.574603
I_oea	-19.8775	-40.565
I_oea	-19.876667	-40.5333
I_oea	-19.870278	-40.558889
I_oea	-19.870267	-40.561322
I_oea	-19.870194	-40.560083
I_oea	-19.869944	-40.534444
I_oea	-19.868056	-40.535
I_oea	-19.865556	-40.557222
I_oea	-19.858139	-40.571278
I_oea	-19.855	-40.563056
I_oea	-19.845556	-40.558889
I_oea	-18.611125	-40.871003
I_paranaensis	-25.249444	-48.806389
I_parnaso	-22.53720093	-42.98189926
I_parnaso	-22.461667	-43.030556
I_parva	-24.466667	-48.733333
I_parva	-24.32	-46.99
I_parva	-24.27	-47.23
I_parva	-24.09000015	-48.36000061
I_parva	-24.085857	-48.026984
I_parva	-24	-48.34
I_parva	-23.99	-46.25
I_parva	-23.98999977	-46.25
I_parva	-23.96	-47.5
I_parva	-23.96	-46.33
I_parva	-23.95	-47.45
I_parva	-23.8544	-46.1386
I_parva	-23.80775	-46.58219
I_parva	-23.7833	-46.3167
I_parva	-23.77000046	-45.34999847
I_parva	-23.7638579	-45.7572707
I_parva	-23.7341701	-46.1855071
I_parva	-23.71714	-45.703138
I_parva	-23.71	-47.42

Species	Latitude	Longitude
I_parva	-23.689075	-45.902182
I_parva	-23.66	-46.52972222
I_parva	-23.66	-46.46
I_parva	-23.65999985	-46.45999908
I_parva	-23.62000084	-45.40999985
I_parva	-23.62	-45.41
I_parva	-23.583794	-46.478332
I_parva	-23.54000092	-46.63000107
I_parva	-23.530278	-45.84
I_parva	-23.53027778	-45.84
I_parva	-23.53000069	-45.84000015
I_parva	-23.523056	-46.188056
I_parva	-23.52305556	-46.18805556
I_parva	-23.52280045	-46.18830109
I_parva	-23.430278	-45.069722
I_parva	-23.43027778	-45.06972222
I_parva	-23.43000031	-45.06999969
I_parva	-23.43	-45.07
I_parva	-23.390328	-45.061647
I_parva	-23.3675	-46.3525
I_parva	-23.351093	-45.135304
I_parva	-23.335833	-45.145833
I_parva	-23.236143	-46.937776
I_parva	-23.229226	-45.323005
I_parva	-23.229038	-45.32286
I_parva	-23.228804	-45.322771
I_parva	-23.228619	-45.322293
I_parva	-23.2278677	-45.3238279
I_parva	-23.222709	-45.30923
I_parva	-23.1869	-46.5217
I_parva	-23.18000031	-46.88000107
I_parva	-23.18	-46.88
I_parva	-23.17000008	-45.88000107
I_parva	-23.1169	-46.5503
I_parva	-23.110278	-46.549722
I_parva	-23.11027778	-46.54972222
I_parva	-23.11000061	-46.54999924
I_parva	-23.07	-44.96
I_parva	-23.06999969	-44.95999908
I_parva	-23.0052	-43.3675
I_parva	-23	-44.3
I_parva	-22.9397222	-43.8830556
I_parva	-22.939685	-43.228821
I_parva	-22.9333	-43.2333
I_parva	-22.90305556	-43.2075
I_parva	-22.9028	-43.2075
I_parva	-22.901944	-43.0925
I_parva	-22.9	-43.2333
I_parva	-22.8991667	-43.8977778
I_parva	-22.82	-44.65
I_parva	-22.7581	-44.6125
I_parva	-22.633333	-44.65
I_parva	-22.583333	-43.233333
I_parva	-22.5667	-44.75
I_parva	-22.5167	-43.1667
I_parva	-22.471097	-42.962963
I_parva	-22.4478	-42.9458
I_parva	-22.43	-42.98
I_parva	-22.41220093	-42.96559906
I_parva	-22.4122	-42.9656
I_parva	-22.401142	-42.512253
I_parva	-22.2819	-42.5311

Species	Latitude	Longitude
I_parva	-22.08919907	-43.82780075
I_parva	-22.0804	-44.08
I_parva	-22.0238	-43.9957
I_parva	-21.970827	-43.89725
I_parva	-21.9472	-44.1911
I_parva	-21.866667	-41.9
I_parva	-20.716667	-42.466667
I_parva	-20.62000084	-41.68579865
I_parva	-20.580111	-41.770278
I_parva	-20.4333	-41.8683
I_parva	-20.3778	-43.4161
I_parva	-20.2875	-43.5081
I_parva	-20.1239	-42.0014
I_parva	-20.0747	-43.4075
I_parva	-19.9458	-43.4872
I_parva	-19.935556	-40.600278
I_parva	-19.931389	-40.595278
I_parva	-19.928547	-40.60815
I_parva	-19.9167	-40.6
I_parva	-19.911286	-40.558061
I_parva	-19.8261	-43.3622
I_parva	-19.6192	-43.2269
I_pusilla	-22.687548	-44.619205
I_pusilla	-22.63333	-44.58333
I_randorum	-23.64611111	-46.47111111
I_randorum	-23.633333	-45.833333
I_randorum	-23.533333	-45.85
I_randorum	-23.53027778	-45.84
I_randorum	-23.53000069	-45.84000015
I_randorum	-23.43000031	-45.06999969
I_sambaqui	-25.5347	-49.2064
I_sambaqui	-25.5306	-49.1956
I_sambaqui	-25.4833	-48.8333
I_sambaqui	-25.453402	-49.01416
I_sambaqui	-25.257667	-48.294417
I_sambaqui	-25.15	-48.266667
I_sambaqui	-25.148092	-48.304141
I_spanios	-25.15	-48.266667
I_spanios	-24.309215	-48.273633
I_spanios	-24.085857	-48.026984
I_spanios	-23.633333	-45.833333
I_spanios	-23.1414332	-46.5590082
I_spanios	-23.11000061	-46.54999924
I_spanios	-23.11	-46.55
I_surda	-20.3778	-43.4161
I_surda	-20.2875	-43.5081
I_surda	-20.0747	-43.4075
I_surda	-20.385	-43.54
I_venancioi	-22.471097	-42.962963
I_venancioi	-22.461667	-43.030556
I_venancioi	-22.433333	-42.8
I_venancioi	-22.41222222	-42.96555556
I_venancioi	-22.35	-42.88333
I_venancioi	-22.331305	-42.721032
I_venancioi	-22	-42.983
I_verrucosa	-23.689075	-45.902182
I_verrucosa	-22.939685	-43.228821
I_verrucosa	-22.663889	-45.450833
I_verrucosa	-22.64	-44.56972222
I_verrucosa	-20.893194	-41.25491
I_verrucosa	-20.716667	-42.466667
I_verrucosa	-20.63500023	-40.74969864

Species	Latitude	Longitude
I_ verrucosa	-20.613056	-41.956944
I_ verrucosa	-20.607253	-42.117724
I_ verrucosa	-20.60359955	-41.18470001
I_ verrucosa	-20.537667	-41.114583
I_ verrucosa	-20.533333	-40.8
I_ verrucosa	-20.516667	-41.116667
I_ verrucosa	-20.4333	-41.8683
I_ verrucosa	-20.374556	-40.659361
I_ verrucosa	-20.286745	-43.537194
I_ verrucosa	-20.28389931	-42.34109879
I_ verrucosa	-20.28111111	-40.52194444
I_ verrucosa	-20.277476	-40.426398
I_ verrucosa	-20.26416667	-40.41972222
I_ verrucosa	-20.263889	-40.42
I_ verrucosa	-20.1239	-42.0014
I_ verrucosa	-20.089815	-43.388267
I_ verrucosa	-20.070278	-42.076944
I_ verrucosa	-19.9778	-42.1397
I_ verrucosa	-19.93560028	-40.60029984
I_ verrucosa	-19.935556	-40.600278
I_ verrucosa	-19.929444	-40.550556
I_ verrucosa	-19.921374	-40.555949
I_ verrucosa	-19.911667	-40.516111
I_ verrucosa	-19.907583	-40.536778
I_ verrucosa	-19.903333	-40.533333
I_ verrucosa	-19.903056	-40.545556
I_ verrucosa	-19.903056	-40.518333
I_ verrucosa	-19.898333	-40.545
I_ verrucosa	-19.866611	-40.577083
I_ verrucosa	-19.855	-40.563056
I_ verrucosa	-19.820278	-40.273333
I_ verrucosa	-19.799167	-41.716389
I_ verrucosa	-19.7897	-42.1392
I_ verrucosa	-19.759722	-42.089722
I_ verrucosa	-19.745	-41.821944
I_vizottoi	-22.92027778	-45.45972222
I_vizottoi	-22.73	-45.59
I_vizottoi	-22.728	-44.6261
I_vizottoi	-22.7269	-44.6258
I_vizottoi	-22.69	-45.474
I_vizottoi	-22.682826	-45.456486
I_vizottoi	-22.64	-44.56972222