SUPPLEMENTARY MATERIAL

Appendix S1. Examined specimens of the *Atractus latifrons* and *Micrurus.*

Countries are identified with capital letters and bold, states are only capitalized, counties in italics, and locations in simple text.

Countries are identified with capital letters and bold, states are only capitalized, counties in italics, and locations in simple text.

Atractus latifrons (*n*= 157): **BOLIVIA:** BENI: *Ovillas del Rio San Martin*: Rio Blanco y Negro: (MNKR 595). SANTA CRUZ: *Guarayos*: Urubichá: (MNKR 3436–39), Rio San Martin: (MNKR 505); *Nuflo de Chávez*: Oquinquia: Rio San Martin: (MNKR 1021); *Velasco*: Cruce Moira: Piso Firme: (MNKR 520), Serrania Huauchaca: (MNKR 218). **BRASIL:** sem localidade específica: (IBSP 20315, MZUSP 3156, 5387, 15580). ACRE: *Porto Walter:* (MZUSP 7353); AMAZONAS: sem localidade específica: (UFMT 851, 943, 946, 1123, 1249, 1339, 1341, 1876, 2114, 2162, 2309, 2922); *Benjamin Constant*: (MNRJ 729–32, 1289, 1517–20, 1522); *Estirão do Equador*: (MPEG 161); *Canutama*: Projeto GEOMA: (INPA 23367); *Presidente Figueiredo*: Balbina Plant Hydroelectric: (MPEG 17395, 17459–60, 17499, 17506, 17531, 17548, 17556–58, 17562, 17564, UFC 1367); *Porto Urucu*: (MPEG 19261); *Serrinha*: Rio Jurupá: (MZUSP 6594); Rio Purus: (MNRJ 633); *Carauari*: Comunidade Nova Esperança: (INPA 14043); *Manaus*: Reserva INPA-WWF: (MNRJ 726–28, MZUSP 8658, 8462, 9500); *Mundurucu*: Rio Manacapuru: (ZMB 30547 holótipo de *Elaps hertae*); BR-174 road: Km 80: (MZUSP 8428), KM 15: (MZUSP 7835). PARÁ: *Belém*: (MPEG 256); *Dom Eliseu*: (MPEG 10820); *Marabá*: (MPEG 17039); *Monte Dourado*: (MPEG 17745). RONDÔNIA: *Campo Novo*: Alto Rio Candeias: (MZUSP 5927); *Nova Brasília*: (MZUSP 8519); *Porto Velho*: Usina Hidrelétrica de Samuel: (IBSP 40875, 52654, MPEG 17831, 17837, 17842, 17901–02, 17904, 17920–21, 17959, 17979, 17990, 18008, 18140, CHUFC 1430–32, CEPB 1703–06, 1708–09, 3077, 3319), Usina Hidrelétrica de Jirau: (MPEG 23962–64); *Espigão do Oeste*: (MPEG 21059, 21060, 21061); Parque Estadual Guajará Mirim: (MPEG 20363); Ribeirão Riachuelo: Afluente Ji-Paranã: (MZUSP 5918). MATO GROSSO: *Alta Floresta*: (MZUSP 10483); *Aripuanã*: (MZUSP 11127); *Campos Novos dos Parecis*: (UFMT 4571, 4572, 4579, 7522); *Cláudia*: (UFMT 3693, 94–98, 99, 3700-06); *Nova Bandeirantes:* (UFMT 1750); RORAIMA: PARNA Viruá: (INPA 25707); Sem localidade específica: (ZMB 47765). **COLÔMBIA:** AMAZONAS: *La Pedrera*: (MLS 210); Rio Caqueta: (IAvH 1483); *Letícia*: Los Lagos: (MPEG 18203–05); *Mirití-Paraná*: (MZUSP 6115); *Puerto Nariño*: (MLS 1319–21); Rio Icara-Paraná: (IAvH 945). CAQUETA: *Caparú*: (ICN 8163). VAUPÉS: *Chiribiquete*: Parque Natural Nacional Cueva de los Guacharos: Corregimiento Miraflores: (IAvH 12, 4264). **PERU:** LORETO: *Pebas*: (BMNH 1946.1.6.52 holotype, MNRJ 2977, 2979, 2981); *Maynas*: (MHNSM 2250, 2292, 2590, 2616); *Urarinas*: (MHNSM 27441); *Tromperos*: (MHNSM 27396); *Requema*: (MHNSM 2884).

Examined specimens of the *Micrurus*

Countries are identified with capital letters and bold, states are only capitalized, counties in italics, and locations in simple text.

Micrurus albicinctus (n= 7): **BRASIL:** AMAZONAS: *São Paolo de Oliveira*: NHMW 18219-1, NHMW 18219-2; RONDÔNIA: *Cachoeira Nazaré Rio Machado*: MZUSP 9072; Usina Hidrelétrica de Samuel: MZUSP 17309, MZUSP 17310, MZUSP 17311, MZUSP 17312.

Micrurus averyi (n= 19): **BRASIL:** AMAZONAS: *Manaus*: MZUSP 17349, MZUSP 17350; *Presidente Figueiredo*: INPA-H 1563; Reserva Adolfo Ducke: INPA-H 21172, INPA-H 8571; Usina Hidrelétrica de Balbina: MZUSP 17307; WWF-Reserva INPA:

MZUSP 8448, MZUSP 8449, MZUSP 8450, MZUSP 8451, MZUSP 8485, MZUSP 9522, MZUSP 9523; PARÁ: *Oriximiná*: Serra do Acaraí: MPEG 22703-04; RORAIMA: BV8: MZUSP 10905; Parque Nacional de Viruá: INPA-H 19235, INPA-H 21670; *Santa Maria do Boiaçu*: MZUSP 10115.

Micrurus filiformis (n= 74): **BRASIL:** AMAZONAS: *Anavilhanas*: Lago do Chindava: FMT 1239; *Benjamin Constant*: MNRJ 1541; *Manaus*: FMT 1608; *Tefé*: INPA 11120; RDS Mamirauá: INPA 11124; AMAPÁ: PARNA Tumucumaque: MPEG TQ564; PARÁ: *Acará*: MPEG 18714, MPEG 21491; *Ananindeua*: MPEG 18563, MPEG 17636, MPEG 19168, MPEG 18278, MPEG 10120; *Barcarena*: MPEG 18497; *Belém*: MPEG 389, MPEG 17611, MPEG 18764, MPEG 2619, MPEG 8839, MPEG 6851, MPEG 392, MPEG 960; *Benevides*: MPEG 1108, MPEG 14688, MPEG 13311, MPEG 10123; *Breves*: MPEG 17340, MZUSP 5095; *Cachoeira do Arari*: MPEG 18136; *Castanhal*: MPEG 1175; *Curuçá*: MPEG 8457, MPEG 6840, MPEG 5597, MPEG 5598; *Ilha do Marajó*: Caldeirão: ZMH 8757; *Marabá*: MPEG 24069, MPEG 23907; *Maracanã*: MPEG 1508, MPEG 4132, MPEG 3397, MPEG 2115, MPEG 2857, MPEG 1905; *Cametá*: IB 3023; *Melgaço*: MPEG 21760, MPEG 20948; *Mirasselvas*: MPEG 10326, MPEG 16326; *Santa Bárbara*: MPEG 21490; *Santa Isabel*: MPEG 9322; *Santarém Novo*: MPEG 5595; *Santo Antonio do Tauá*: MPEG 1507; *Tomé-Açú*: IB 14830, IB 14834; *Vigia*: MPEG 8467, MPEG 5574, MPEG 5575, MPEG 8491, MPEG 8842, MPEG 5576, MPEG 8446, MPEG 5489; *Viseu*: MPEG 14135, MPEG 15382; **BOLÍVIA**: PANDO: *Madre de Dios*: ZMH 2700; **COLÔMBIA**: GUAINIA: *Inirida*: ICN 8383, MPEG 8384; META: *La Macarena*: ICN 2594; *Villavicencio*: ICN 7062, ICN 7105, MHNUC-He-Se-R 275; VAUPÉS: *Caruru*: ICN 8166; VICHADA: *Cumaribo*: IAvH-R 5149; *Gaviotas*: MZUSP 6123.

Micrurus langsdorffi (n= 24): **BRASIL**: AMAZONAS: *Resex Baixo Juará-Rio*: INPA-H 18766, INPA-H 18767; *São Gabriel da Cachoeira*: INPA-H 12779; Sem procedência: MNHN 1928-905; **COLÔMBIA:** AMAZONAS: *Letícia*: Parque Nacional Natural Amacayacu: IAvH 2865, IAvH 3071; *Antioquia*: San Bartoloy Volcan: NRM 31099; BOYACÁ: *Togui*: Finca Versalles: ICN 11145; CAQUETÁ: *Rio Cuemaní* (limite com Amazonas): IAvH 1885; META: *Villavicencio*: La Macarena: Piñalito: Cabaña Pajuiles: ICN 2614; PUTUMAYO: *La Hormiga*: MHNUC – He – Se 233; VAUPÉS: *Carurú*: Caparú: ICN 8196, ICN 8197, ICN 8198, ICN 8199, ICN 8200; *rio Inirida*: Morichal Garza: IAvH 1512; *lago Tairara*: bajo rio Apaporis, Estación Biológica Kaparu: IAvH 2923, IAvH 2924, IAvH 4096.

Micrurus lemniscatus (n= 325): **BRASIL:** ACRE: *Rio Branco*: IB 46251; AMAZONAS: *Careiro da Várzea*: MPEG 19547, MPEG 20347; *Manaus*: INPA 10421; *Presidente Figueiredo*: MPEG 17580; *Rio Javari, margem sul do Amazonas*: IB 28926, IB 24258; *São Gabriel da Cachoeira*: INPA 15758; AMAPÁ: *Serra do Navio*: MPEG 19692, MPEG 19693, MPEG 19694, MPEG 16695; MARANHÃO: MPEG 10178, MPEG 12694, MPEG 15147, MPEG 16198, MPEG 16199; *Arari*: MPEG 13517, MPEG, 15026, MPEG 16162, MPEG 16164; *Grajaú*: MPEG 17606; *Nova Vida*: MPEG 10109, MPEG 12758; *Paruá*: MPEG 13645, MPEG 13652; PARÁ: *Acará*: MPEG 18961; *Almeirim*: MPEG 21393, MPEG 21394, MPEG 21395, MPEG 21396; *Ananindeua*: MPEG 219, MPEG 18536; *Anajás*: MPEG 20042; *Augusto Correa*: MPEG 1371, MPEG 3220, MPEG 3904, MPEG 3906, MPEG 5382, MPEG 5390, MPEG 6551, MPEG 6552, MPEG 8849, MPEG 8850, MPEG 8877, MPEG 8879, MPEG 8848, MPEG 5391; *Barcarena*: MPEG 18444, MPEG 18687; *Belém*: MPEG 266, MPEG 388, MPEG 1516, MPEG 17682, MPEG 18633, MPEG 2618, MPEG 15444, MPEG 16408, MPEG 18698, MPEG 19303; *Benevides*: MPEG 8466, MPEG 8451, MPEG 8886; *Bragança*: MPEG 3043, MPEG 3044, MPEG 3669, MPEG 5020, MPEG 5021, MPEG 5026, MPEG 5548, MPEG 5546, MPEG 5551, MPEG 5602, MPEG 5603, MPEG 8454, MPEG 8455, MPEG 8852, MPEG 8853, MPEG 8887, MPEG 8888, MPEG 13001, MPEG 13004; *Capitão*

Poço: MPEG 6833, MPEG 10143; *Castanhal*: MPEG 5572, MPEG 697, MPEG 5588, MPEG 13269; *Colônia Nova*: MPEG 2193, MPEG 4319, MPEG 5333, MPEG 5542, MPEG 8837, MPEG 8838, MPEG 8889, MPEG 10116, MPEG 10117, MPEG 10118, MPEG 10119, MPEG 12854, MPEG 12889, MPEG 13763, MPEG 13905, MPEG 15279, MPEG 15280, MPEG 15281, MPEG 16024, MPEG 16025, 140, MPEG 16313; *Dom Eliseu*: MPEG 14513; *Garrafão do Norte*: MPEG 18686; *Igarapé Açu*: MPEG 905, MPEG 950; *Marabá*: MPEG 16488, MPEG 16489, MPEG 16791, MPEG 17144, MPEG 17081; *Maracanã*: MPEG 2856, MPEG 5600, MPEG 2418; *Melgaço*: MPEG 18707, MPEG 18873, MPEG 18963, MPEG 20001, MPEG 20458, MPEG 18657, MPEG 20127, MPEG 20021, MPEG 20221, MPEG 20285; *Oriximiná*: MPEG 19772, MPEG 21169, MPEG 21168, MPEG 21167, MPEG 20878; *Palestina do Pará*: MPEG 15552; *Santa Bárbara do Pará*: MPEG 17618, MPEG 18478; *Santarém*: MPEG 19054; *Santarém Novo*: MPEG 4146; *Santa Luzia*: MPEG, 14141; *Santo Antonio do Tauá*: MPEG 2390, MPEG 8448; *São Domingos do Capim*: MPEG 11285, MPEG 11291, MPEG 10143; *Senador José Porfírio*: MPEG 19904; *Vigia*: MPEG 2285, MPEG 5593; *Viseu*: MPEG 1322, MPEG 1358, MPEG 1511, MPEG 1515, MPEG 3135, MPEG 3138, MPEG 3765, MPEG 3712, MPEG 4464, MPEG 5557, MPEG 5562, MPEG, 5568; MPEG 8890, MPEG 8891, MPEG 8892, MPEG 10122, MPEG 10121, MPEG 14882, MPEG 15381, MPEG 15382, MPEG 16296, MPEG 16304, MPEG 1037, MPEG 2286, MPEG 2348, MPEG 3065, MPEG 10109, MPEG 10034, MPEG 13762, MPEG 14034; Sem procedência: MNRJ 957, MNRJ 8274, MNRJ 9049; RONDÔNIA: *Alto Paraíso*: MZUSP 8357; *Candeias do Jamari*: CEPB 1722; *Espigão D'Oeste*: INPA 2220; *Guajará-Mirim*: MPEG 20373; *Itapuã D'Oeste*: *Ouro Preto D'Oeste*: MPEG 16833: *Porto Velho*: CEPB 1107, CEPB 1869, IB 52702, MPEG 18025. **COLÔMBIA:** AMAZONAS: *Caño Guacayá*: ICN 34; *Letícia*: IAvH 0797, IAvH-R 2088, IB 42704, ICN 10555, FMT 1108, MLS 1525, MZUSP 17351, MZUSP 17352; Rio Miriti-Paraná: IAvH-R 1928; *Tarapacá*: ICN 31; ARAUCA: Caño Limón ICN 11052; BOYACÁ: *Tunebia*: MLS 2196; CAQUETÁ: *Florência*: MLS 1527, MLS 1528, MLS 1530, MLS 1531; *La Providencia*: Rio Orteguasa: MLS 1532; CASANARE: Aguazul: ICN 11380.

Micrurus diutius (n= 109): **BRASIL:** AMAZONAS: *Barcelos*: MZUSP 5465; PARÁ: *Oriximiná*: MZUSP 4792; RORAIMA: *Apiaú*: MZUSP 9258; *Ilha Maracá*: MZUSP 9306; *Maloca Mangueira*: MZUSP 9224; Rio Apiaú: Porto do Garimpo: MZUSP 9243; *Serra dos Surucucus*: Posto FUNAI: MZUSP 9723; **GUIANA**: RUPUNUNI: Ruawau River: ROM 11702; Northwest: *Baramita*: Vivinity of Camp: ROM 22834; **SURINAME**: Sem procedência: NMW 18805; **TRINIDAD**: ARIPO: Savannah: ZSM 194/1909; *St. George*: Arima Ward: Vicinity of Arima: 9,5 mi. N. of Blanchisseuse Rd.: ROM 43354; **VENEZUELA**: Sem procedência: NMW 133845.

Appendix S2. Number of spatially unique occurrence records used in the niche modelling for each *Micrurus* species and *Atractus latifrons* chromatic pattern.

Species	Number of records
Micrurus diutius	8
Micrurus filiformis	27
Micrurus lemniscatus	59
Micrurus albicinctus	3
Micrurus averyi	8
Micrurus langsdorffi	14
Atractus latifrons pattern TT	5
Atractus latifrons pattern TM	9
Atractus latifrons pattern BM	6
Atractus latifrons pattern TD	29

Table SI. Spatially unique occurrence records used in the niche modelling for each *Micrurus* species and *Atractus latifrons* chromatic pattern.

Species	lat	long
Micrurus langsdorffi	-9.189966667	-75.01515278
Micrurus langsdorffi	-7.652547222	-72.65649722
Micrurus langsdorffi	-4.205416667	-69.93280833
Micrurus langsdorffi	-3.329066667	-71.85416667
Micrurus langsdorffi	-2.182944444	-67.02004167
Micrurus langsdorffi	-1.831238889	-78.18340556
Micrurus langsdorffi	0.43595	-75.52766944
Micrurus langsdorffi	0.855333333	-70.81199444
Micrurus langsdorffi	0.86989167	-73.84190556
Micrurus langsdorffi	1.00000000	-71.30000000
Micrurus langsdorffi	1.283333333	-67.08472222
Micrurus langsdorffi	4	73
Micrurus langsdorffi	5.639633333	-72.89880833
Micrurus langsdorffi	7.198605556	-75.34121667
Micrurus averyi	-3.1445889	-60.0250000
Micrurus averyi	-2.917219444	-59.98347778
Micrurus averyi	-2.416666667	-59.71666667
Micrurus averyi	-2.045277778	-60.02638889
Micrurus averyi	0.416944444	-61.78416667
Micrurus averyi	1.336666667	-61.00666667
Micrurus averyi	4.486188889	-61.15141944
Micrurus albicinctus	-10.19352778	-61.87908889
Micrurus albicinctus	-8.752369444	-63.45390278
Micrurus albicinctus	-3.378344444	-68.873525
Micrurus lemniscatus	-11.004749	-66.083457
Micrurus lemniscatus	-9.973999	-67.807568
Micrurus lemniscatus	-7.143833	-55.377521
Micrurus lemniscatus	-6.64141	-51.978977
Micrurus lemniscatus	-6.49737222	-49.87843611
Micrurus lemniscatus	-6	-50.3
Micrurus lemniscatus	-5.722099	-50.725419
Micrurus lemniscatus	-5.703804	-48.174719
Micrurus lemniscatus	-5.466667	-43.3
Micrurus lemniscatus	-5.370657	-49.118699
Micrurus lemniscatus	-5.15	-44.966667
Micrurus lemniscatus	-5.14962222	-44.96633889
Micrurus lemniscatus	-4.866155556	-65.29926111
Micrurus lemniscatus	-4.388354	-59.594486
Micrurus lemniscatus	-4.29547222	-47.55152222
Micrurus lemniscatus	-3.9	-52.666667
Micrurus lemniscatus	-3.768933	-49.673651

Table SI. Continuation.

Micrurus lemniscatus	-3.566944	-66.966944
Micrurus lemniscatus	-3.46410556	-44.86308056
Micrurus lemniscatus	-3.4005556	-51.7472222
Micrurus lemniscatus	-3.396434	-43.554185
Micrurus lemniscatus	-3.361133	-64.672629
Micrurus lemniscatus	-3.1962	-52.21233889
Micrurus lemniscatus	-3.144588889	-60.025
Micrurus lemniscatus	-2.60967222	-45.75341667
Micrurus lemniscatus	-2.440559	-54.698575
Micrurus lemniscatus	-2.184333	-52.2706
Micrurus lemniscatus	-2.153297	-56.087232
Micrurus lemniscatus	-2.034352	-60.025875
Micrurus lemniscatus	-1.9975	-54.07166667
Micrurus lemniscatus	-1.96033333	-48.19654167
Micrurus lemniscatus	-1.94229444	-50.80906389
Micrurus lemniscatus	-1.93297778	-47.04959444
Micrurus lemniscatus	-1.9218	-51.64915
Micrurus lemniscatus	-1.884701	-48.765215
Micrurus lemniscatus	-1.8847	-48.76521389
Micrurus lemniscatus	-1.88333333	-52.96666667
Micrurus lemniscatus	-1.816667	-46.283333
Micrurus lemniscatus	-1.759944	-55.86247
Micrurus lemniscatus	-1.518908	-48.617001
Micrurus lemniscatus	-1.45502	-48.502368
Micrurus lemniscatus	-1.297338	-47.922144
Micrurus lemniscatus	-1.192609	-46.13868
Micrurus lemniscatus	-1.116667	-48.4
Micrurus lemniscatus	-1.08	-46.99
Micrurus lemniscatus	-1.024141	-46.653811
Micrurus lemniscatus	-1	-49.5
Micrurus lemniscatus	-0.93066	-47.385646
Micrurus lemniscatus	-0.40506	-63.0829
Micrurus lemniscatus	-0.119354	-67.082435
Micrurus lemniscatus	2.224694	-55.947346
Micrurus lemniscatus	3.831487	-51.835444
Micrurus lemniscatus	4.269624	-73.567932
Micrurus lemniscatus	4.868835	-53.017827
Micrurus lemniscatus	4.88922	-52.314743
Micrurus lemniscatus	5.383333	-52.95
Micrurus lemniscatus	5.866667	-55.166667
Micrurus lemniscatus	6.8	-58.1667
Micrurus lemniscatus	7.25	-58.7167
Micrurus filiformis	-11.743568	-67.095233

Table SI. Continuation.

Micrurus filiformis	-5.370657	-49.118699
Micrurus filiformis	-4.383347	-70.031528
Micrurus filiformis	-3.320729	-64.723583
Micrurus filiformis	-3.0607	-60.013
Micrurus filiformis	-2.7	-60.75
Micrurus filiformis	-2.41474	-48.149937
Micrurus filiformis	-2.254065	-49.512283
Micrurus filiformis	-1.960333	-48.196543
Micrurus filiformis	-1.805694	-50.714616
Micrurus filiformis	-1.682562	-50.480836
Micrurus filiformis	-1.518908	-48.617001
Micrurus filiformis	-1.45502	-48.502368
Micrurus filiformis	-1.299376	-48.161003
Micrurus filiformis	-1.297338	-47.922144
Micrurus filiformis	-1.192609	-46.13868
Micrurus filiformis	-1.080973	-46.989449
Micrurus filiformis	-1.004419	-48.957358
Micrurus filiformis	-0.93066	-47.385646
Micrurus filiformis	-0.863	-48.131071
Micrurus filiformis	-0.770941	-48.525215
Micrurus filiformis	-0.739878	-47.851888
Micrurus filiformis	1.012487	-71.290855
Micrurus filiformis	2.070913	-73.956177
Micrurus filiformis	3.865278	-67.923889
Micrurus filiformis	4.15	-73.633333
Micrurus filiformis	4.45	-69.8
Micrurus filiformis	4.555556	-71.333333
Micrurus diutius	-1.759944	-55.86247
Micrurus diutius	-0.975339	-62.9245
Micrurus diutius	2.572518	-59.923464
Micrurus diutius	2.667	-61.25
Micrurus diutius	2.833333	-63.633333
Micrurus diutius	3.3	-61.45
Micrurus diutius	3.416667	-61.666667
Micrurus diutius	7.366667	-60.483333
Atractus latifrons - BM	-8.7619833	-63.8956750
Atractus latifrons - BM	-10.79455000	-65.32973889
Atractus latifrons - BM	-2.045277778	-60.02638889
Atractus latifrons - BM	-10.5700000	-63.6161111
Atractus latifrons - BM	-4.8784167	-66.8971639
Atractus latifrons - BM	-8.7523694	-63.4539028
Atractus latifrons - TD	-3.1025	-75.42458333
Atractus latifrons - TD	-4.232472222	-74.21793333

Table SI. Continuation.

Atractus latifrons - TD	0.869891667	-73.84190556
Atractus latifrons - TD	-8.258666667	-72.77697222
Atractus latifrons - TD	-4.5222	-71.5648694
Atractus latifrons - TD	-4.1900000	-69.9616667
Atractus latifrons - TD	-1.323944444	-69.57795278
Atractus latifrons - TD	-4.866155556	-65.29926111
Atractus latifrons - TD	-14.378275	-65.09577778
Atractus latifrons - TD	-6.533888889	-64.38277778
Atractus latifrons - TD	-8.752369444	-63.45390278
Atractus latifrons - TD	-17.78834167	-63.18318333
Atractus latifrons - TD	-15.39103889	-62.94749167
Atractus latifrons - TD	-11.10194444	-62.38416667
Atractus latifrons - TD	-15.91638611	-62.26266389
Atractus latifrons - TD	-16.48333333	-61.95000000
Atractus latifrons - TD	-11.5352778	-61.0130556
Atractus latifrons - TD	1.336666667	-61.00666667
Atractus latifrons - TD	-9.17931111	-60.63063056
Atractus latifrons - TD	-2.045277778	-60.02638889
Atractus latifrons - TD	-3.144588889	-60.025
Atractus latifrons - TD	-2.416666667	-59.71666667
Atractus latifrons - TD	-13.675000	-57.89194444
Atractus latifrons - TD	-9.95545000	-57.86641389
Atractus latifrons - TD	-9.87649722	-56.08642500
Atractus latifrons - TD	-4.269133333	-55.98967778
Atractus latifrons - TD	-11.5080556	-54.8769444
Atractus latifrons - TD	0.8663889	-52.5383333
Atractus latifrons - TD	-4.29547222	-47.55152222
Atractus latifrons - TM	-4.986713889	-73.98457222
Atractus latifrons - TM	-4.866155556	-65.29926111
Atractus latifrons - TM	-4.5222	-71.56486944
Atractus latifrons - TM	-4.232472222	-74.21793333
Atractus latifrons - TM	-4.19	-69.96166667
Atractus latifrons -TM	-3.773333333	-70.38194444
Atractus latifrons - TM	-2.045277778	-60.02638889
Atractus latifrons - TM	-1.323944444	-69.57795278
Atractus latifrons - TM	0.855355556	-70.81199444
Atractus latifrons - TT	-11.50805556	-54.87694444
Atractus latifrons - TT	-8.761983333	-63.895675
Atractus latifrons - TT	-3.294177778	-60.63439444
Atractus latifrons - TT	-2.416666667	-59.71666667
Atractus latifrons - TT	-2.045277778	-60.02638889

Table SII. Accuracy of ENM models for the ensemble suitability among modeling methods for each climatic model, and overall mean accuracy for the ensemble among modeling methods and climatic models.

Species	CNRM	GISS	MIROC	MRI	Mean accuracy
A. latifrons TT	0.927	0.930	0.939	0.921	0.929
A. latifrons TM	0.889	0.888	0.861	0.937	0.894
A. latifrons BM	0.927	0.812	0.872	0.901	0.878
A. latifrons TD	0.660	0.707	0.680	0.647	0.673
M. langsdorffi TM	0.655	0.718	0.833	0.712	0.730
M. averyi TM	0.891	0.761	0.922	0.852	0.856
M. albicinctus BM	0.979	0.886	0.953	0.985	0.951
M. lemniscatus TT	0.825	0.813	0.768	0.815	0.805
M. filiformis TT	0.773	0.766	0.672	0.759	0.743
M. diutius TD	0.830	0.885	0.914	0.892	0.880

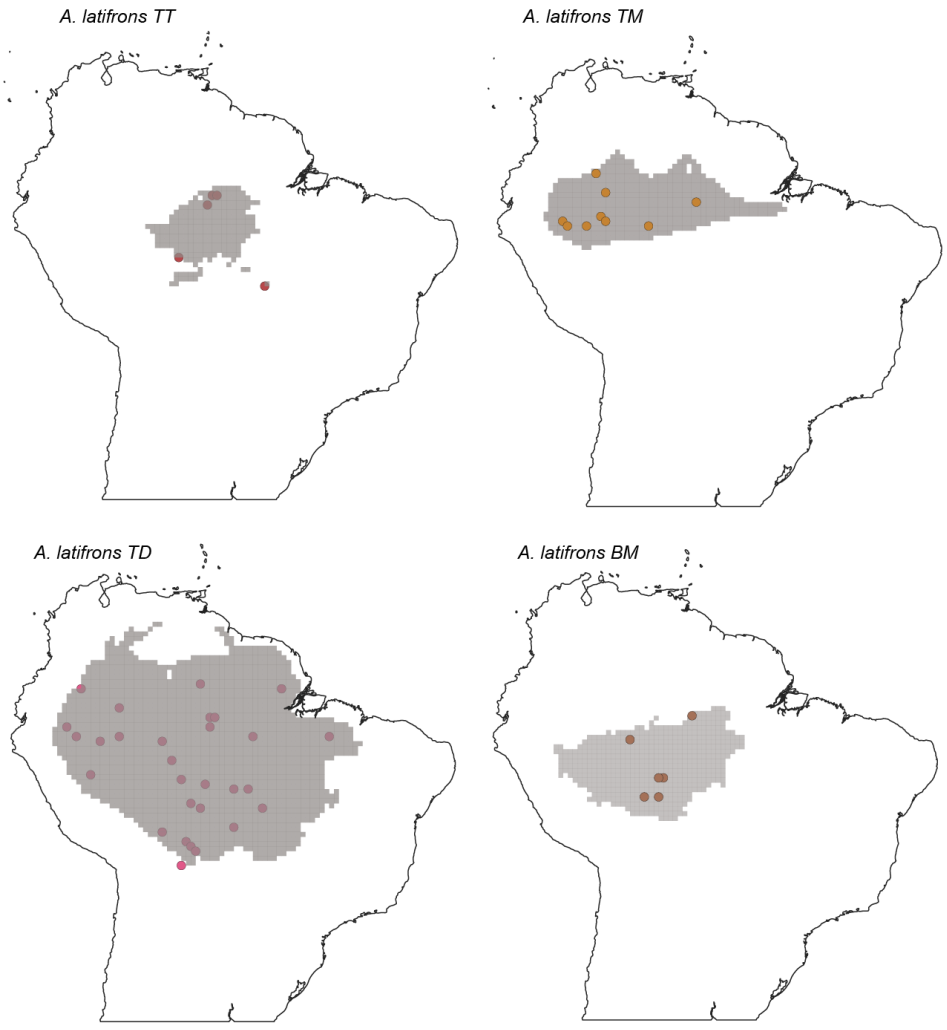

Figure S1. Modeled geographic distributions and occurrence records for *Atractus latifrons* chromatic patterns.

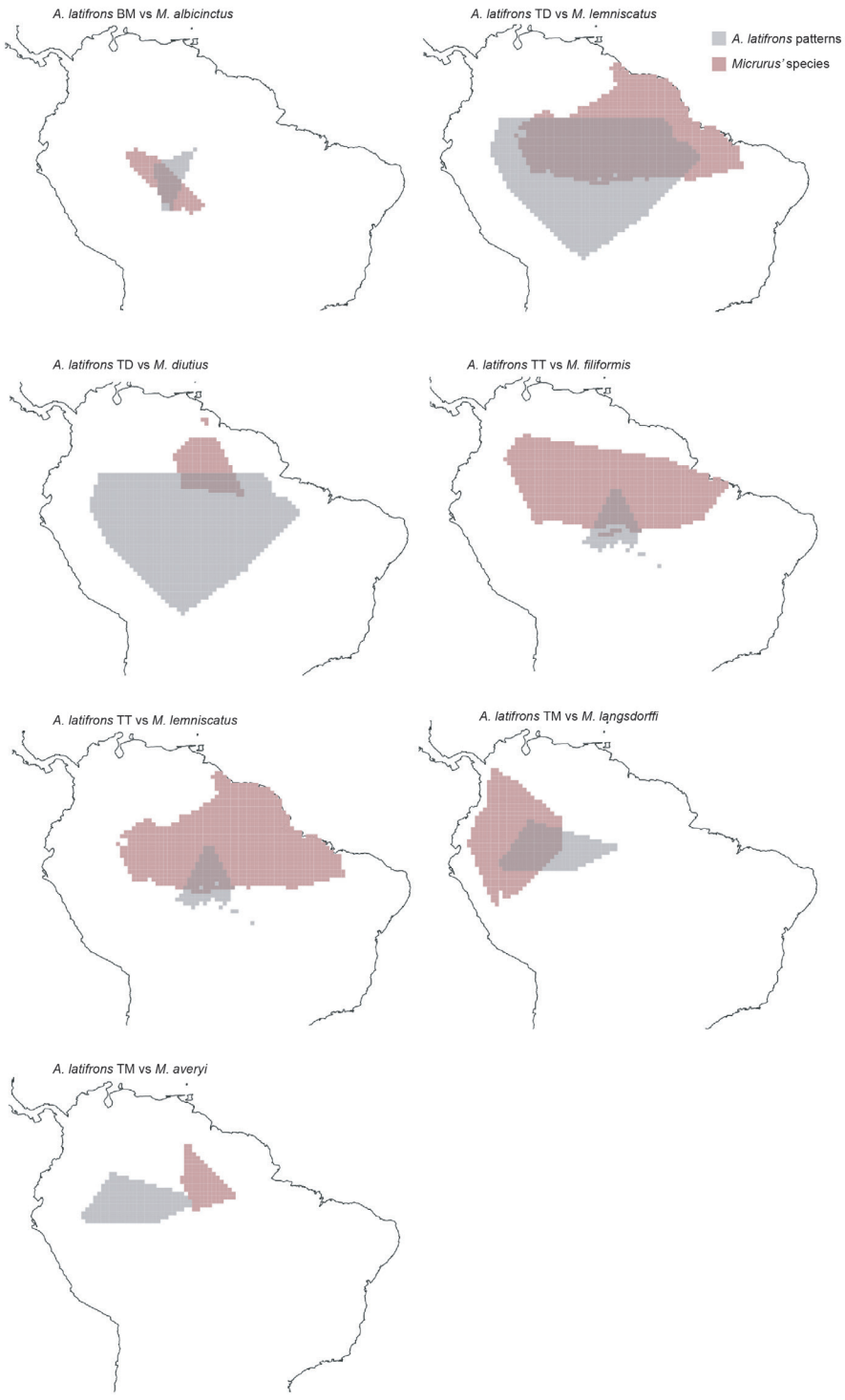

Figure S2. Polygons generated by a convex hull for each combination of mimic *A. latifrons* and *Micrurus* model species.

Figure S3. Modeled geographic distribution of *Atractus latifrons*, based on all occurrence records for this species.

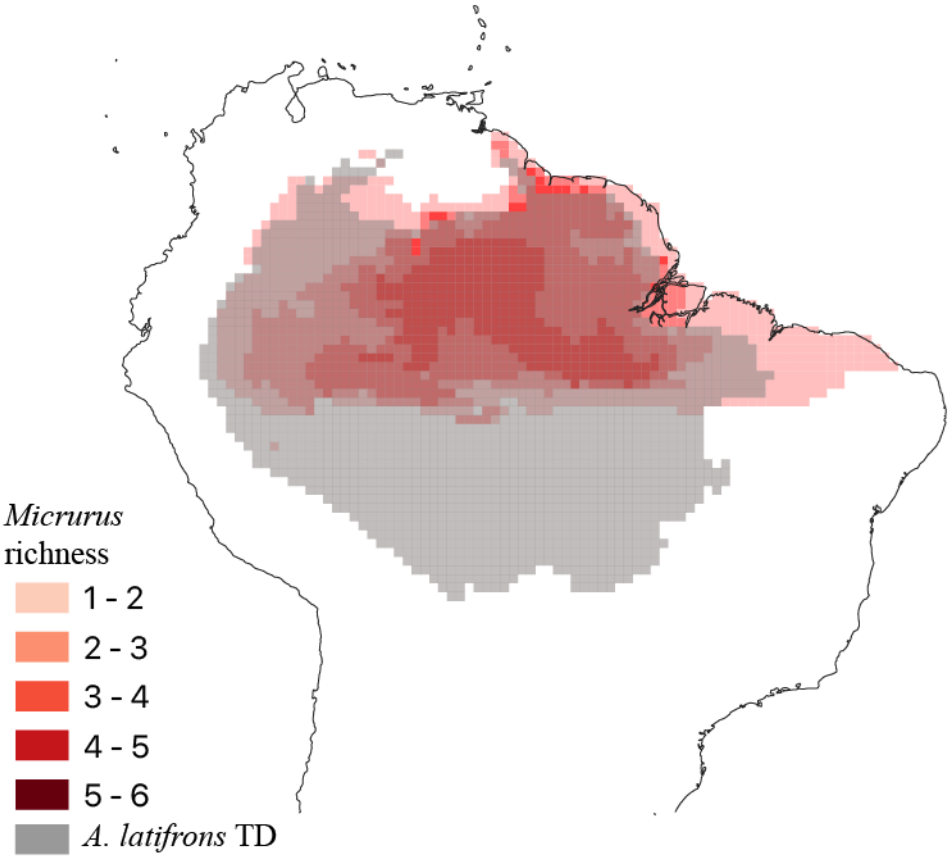

Figure S4. Richness pattern of *Micrurus* mimetic models in the Amazonia, resulting from stacking the geographic ranges from ENM.