

Determinação de zonas de contato entre duas espécies do gênero *Leistes* (Vigors, 1825) (Passeriformes: Icteridae) na América do Sul

Determination of contact zones between two species of the genus *Leistes* (Vigors, 1825) (Passeriformes: Icteridae) in South America

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Resumo: *Leistes militaris* (Linnaeus, 1758) e *L. superciliaris* (Bonaparte, 1850) vêm sofrendo expansão de suas distribuições geográficas devido à transformação de paisagens naturais em pastagens ou monoculturas na América Latina, implicando o possível estabelecimento de zonas de contato entre as duas espécies. Deste modo, a partir de uma revisão da distribuição geográfica dessas espécies, por meio de registros fotográficos oriundos do portal WikiAves para o Brasil e da literatura para Peru e Bolívia, o objetivo deste estudo foi verificar a existência de zonas de contato entre as duas espécies. Os registros compilados demonstraram uma extensão da distribuição geográfica de *L. militaris* em 27%, enquanto para *L. superciliaris* a extensão foi de 12,7%. A sobreposição entre as distribuições geográficas das espécies indicou a existência de três zonas de contato distintas, abrangendo os limites do ecótono Amazônia-Cerrado no Brasil e na Bolívia, bem como uma ligeira penetração na Caatinga, no Nordeste do Brasil. Eventos de hibridização foram conjecturados devido à sintopia entre as duas espécies, preteritamente separadas geograficamente.

Palavras-chave: Distribuição geográfica. Ecótono Amazônia-Cerrado. Portal WikiAves.

Abstract: *Leistes militaris* (Linnaeus, 1758) and *L. superciliaris* (Bonaparte, 1850) have been undergoing expansion of their geographic distributions due to the transformation of natural landscapes into pastures or monocultures in Latin America, assuming the possibility of establishing contact zones between the two species. Thus, from a review of the geographic distribution of those species, supported by photographic records from the WikiAves portal for Brazil and by literature records for Peru and Bolivia, the objective of this study was to verify the existence of contact zones between the two species. The compiled records showed an extension of the occurrence of *L. militaris* in 27% in the total area of the geographic distribution of the species, while for *L. superciliaris* the extension of occurrence had an increase of 12.7% of its area. The overlap between the extensions of the geographic distributions of the species indicated the existence of three distinct contact zones presents in the limits of the Amazon-Cerrado ecotone in Brazil and in Bolivia, and in the Caatinga biome, in northeastern Brazil. Hybridization events were conjectured due to syntopy between the two species, previously disjunct in their geographic distributions.

Keywords: Geographic distribution. Amazon-Cerrado ecotone. WikiAves Portal.

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INTRODUÇÃO

A família Icteridae é composta por 105 espécies (Winkler et al., 2020), sendo 43 delas conhecidas para o Brasil (Pacheco et al., 2021). Duas espécies, *Leistes militaris* e *L. supercilialis*, são comuns e abundantes no território brasileiro, as quais são morfologicamente muito similares. A diferenciação entre as duas espécies na natureza é baseada na faixa supraocular branca, ou supercílio branco, ausente em machos adultos de *L. militaris* e presente em *L. supercilialis*, durante a plumagem reprodutiva ou plumagem de desgaste (Sick, 1997; Ridgely & Tudor, 2009; Grantsau, 2010; Schulenberg et al., 2010; Herzog et al., 2017; Fraga, 2020a, 2020b). Fêmeas e jovens de ambas as espécies são amarronzados e facilmente confundidos em campo (Sick, 1997; Ridgely & Tudor, 2009; Grantsau, 2010; Herzog et al., 2017).

A distribuição geográfica das espécies é bem ampla, sendo elas consideradas substitutas geográficas (Sick, 1997; Ridgely & Tudor, 2009). *Leistes militaris* ocorre desde a Costa Rica até o nordeste do Peru e extremo norte da Bolívia (BirdLife International, 2018a). No Brasil, sua distribuição é predominantemente amazônica (Sick, 1997; Ridgely & Tudor, 2009), alcançando os limites de transição com o bioma Cerrado nos estados do Maranhão, Tocantins e Mato Grosso (Dornas et al., 2007). A distribuição de *L. supercilialis* se estende desde a região central da Argentina até a Bolívia, seguindo por toda a porção centro-sul e extremo nordeste brasileiro (BirdLife International, 2018b).

Entretanto, com o avanço do desmatamento, as duas espécies têm expandido os limites de suas distribuições (Las Casas et al., 2004; Dornas et al., 2007; Arendt & Torres, 2009; Olmstead et al., 2011). Ainda nas décadas de 1960 e 1980, o desmatamento da Mata Atlântica nos estados do Rio de Janeiro e São Paulo proporcionou sucessivos registros de *L. supercilialis* em áreas onde nunca a espécie tinha sido avistada antes (Sick, 1997). A transição Amazônia-Cerrado no sudoeste do Maranhão tem sido apontada como nova localidade de ocorrência de *L. supercilialis* (Ferreira, 2014). Para *L. militaris*, a distribuição geográfica

tem sido expandida para leste, alcançando a porção central do Tocantins (Dornas et al., 2007).

Presume-se que essa expansão na distribuição geográfica de ambas as espécies em sentidos opostos, levando a uma sobreposição de ocorrência na porção central do Brasil, possa representar o estabelecimento de uma extensa zona de contato entre essas duas espécies, até então nunca descrita na literatura, com milhares de quilômetros. Zonas de contato já foram constatadas na porção central da Argentina (Short, 1968), entre *Leistes loyca* (Molina, 1782) e *Leistes defillipi* (Bonaparte, 1850), e na região oeste do Equador (Olmstead et al., 2011), entre *L. militaris* e *L. belicosa* (de Filippi, 1847). Por sua vez, a formação dessas zonas de contato pode desencadear eventos de hibridizações (Areta et al., 2017; Trindade, 2017).

Portanto, neste estudo, tivemos como objetivo inicial revisar os limites da distribuição geográfica de *L. militaris* e *L. supercilialis*, com ênfase em registros ocorridos nos limites do Brasil, do Peru e da Bolívia. O segundo objetivo foi identificar zonas de contato entre os congêneres.

MATERIAL E MÉTODOS

COMPILAÇÃO DOS DADOS

A nomenclatura e sistemática adotadas seguiu o Comitê Brasileiro de Registros Ornitológicos (CBRO) (Pacheco et al., 2021). A distribuição geográfica referencial principal assumida para *L. militaris* e *L. supercilialis* em nosso trabalho foi baseada nos mapas apresentados por BirdLife International (2018a, 2018b).

A compilação dos dados de ocorrência de *L. militaris* e *L. supercilialis* para o Brasil considerou registros depositados no portal WikiAves (n.d.) até o período de março de 2021, os quais foram fornecidos pela curadoria do portal. Apenas os registros fotográficos foram considerados, uma vez que as vozes das duas espécies são muito semelhantes (Sick, 1997; Ridgely & Tudor, 2009; Schulenberg et al., 2010). Todos os registros tabulados consideraram: número de depósito ou registro no

WikiAves, localidade, município, unidade federativa, autor do registro, sexo, idade, data do registro, tipo de plumagem e coordenada geográfica a mais exata possível. Registros com coordenadas ausentes foram verificados por meio dos softwares *Google Earth PRO* ou *Google Maps*, considerando o nome da localidade. Persistindo a indefinição da localidade de registro, foi adotada a coordenada da sede municipal do registro. Localidades sem rastreabilidade de coordenadas geográficas e que não tenham um município associado foram descartadas.

O WikiAves é uma plataforma interativa digital que foi criada em 2009, na qual cidadãos (amadores e/ou leigos, profissionais e/ou acadêmicos da ornitologia) depositam mídias fotográficas e sonoras das diferentes espécies de aves ocorrentes em território brasileiro. O contínuo depósito de mídias proporcionou a criação de um banco de dados colaborativo e virtual das aves do Brasil, cujo uso científico tem sido amplamente discutido e adotado (Lees & Martin, 2015; Xavier et al., 2017; Alexandrino et al., 2018; J. A. Silva & Nery, 2019; Dornas et al., 2019).

Os registros das duas espécies para o Peru e a Bolívia foram baseados, respectivamente, em Schulenberg et al. (2006, 2010) e Herzog et al. (2017) e não se encontram nos mapas de distribuição geográfica apresentados por BirdLife International (2018a, 2018b).

VALIDAÇÃO DOS DADOS

Cada uma das mídias depositadas no portal WikiAves conta com número de registro (*voucher*), permitindo a individualização dos registros e sua verificação de forma independente por terceiros. Deste modo, os registros compilados passaram por processo de validação. Indivíduos jovens (machos ou fêmeas) e fêmeas adultas, de ambas as espécies, não foram considerados por apresentarem plumagens semelhantes (Sick, 1997; Ridgely & Tudor, 2009; Herzog et al., 2017). Foram considerados válidos os registros de machos adultos de *L. militaris* e *L. supercilialis*, dentre os quais é possível observar e distinguir, com segurança, as plumagens reprodutivas ou de desgaste ou

as plumagens de descanso (Sick, 1997; Ridgely & Tudor, 2009; Schulenberg et al., 2010; Herzog et al., 2017; Fraga, 2020a, 2020b).

Na plumagem de descanso, as penas possuem bordas amarronzadas, as quais vão se desgastando pela abrasão do indivíduo na vegetação rasteira de gramíneas (Sick, 1997). Esse desgaste modifica o padrão de coloração da plumagem do indivíduo de forma mecânica, sem a troca de penas ou muda. A coloração da plumagem se altera para tons uniformes de preto e vermelho, caracterizando a plumagem reprodutiva ou de desgaste. Nesse estágio, a faixa branca supraocular em machos de *L. militaris* se torna ausente em comparação com os machos de *L. supercilialis* (Sick, 1997; Ridgely & Tudor, 2009; Fraga, 2020a).

Após o período reprodutivo, as espécies sofrem mudas, retomando a plumagem de descanso. Nessa fase, as penas readquirem bordas amarronzadas, de modo que indivíduos machos de ambas as espécies apresentam faixas supraoculares. Em *L. militaris*, o branco é bastante rudimentar ou residual, mesclado de tons de cinza e marrom, na maioria das vezes, enquanto em *L. supercilialis* o branco, bastante marcado, evidencia um supercílio bem destacado (Sick, 1997; Schulenberg et al., 2010).

MAPEAMENTO DAS DISTRIBUIÇÕES GEOGRÁFICAS E DELIMITAÇÃO DE ZONAS DE CONTATO

Os registros validados foram plotados sobre o mapa da distribuição geográfica das espécies (BirdLife International, 2018a, 2018b), a partir do qual foi delimitado um novo polígono, unindo sequencialmente, por meio de uma linha, os pontos de ocorrência mais externos compilados para além da área de ocorrência assumida de cada espécie. Embora recomendado para delimitação de polígonos de distribuição geográfica, o método do Mínimo Polígono Convexo (MPC) (Barg et al., 2005) não foi adotado, pois considera o menor polígono possível com todos os pontos de ocorrência, em que nenhum ângulo interno deve ser maior do que 180°.

Essas condições favorecem uma extrapolação dos limites das áreas incorporadas, superestimando a área total de extensão das espécies. Além disso, para distribuições geográficas disjuntas, como é observado em *L. militaris*, o MPC pode erroneamente delimitar esse dado da espécie em um único polígono contínuo. A união de polígonos – quando, de fato, devem ser apresentados em dois ou mais polígonos separados – também superestima a área delimitada, gerando polígonos incoerentes com a ocorrência das espécies.

A zona de contato entre as espécies foi delimitada com a sobreposição dos polígonos resultantes da extensão da distribuição geográfica (Short, 1968; F. Silva, 2010; Olmstead et al., 2011; Aguiar et al., 2014). Os polígonos das zonas de contato tiveram mensuradas suas larguras (máximas e mínimas), comprimentos (km), área (km²) e orientação geográfica com relação aos pontos cardeais. O mapeamento e o geoprocessamento dos dados ocorreram através do *software* livre *Quantum Gis 3.4* (QGIS3.4) (QGIS, n.d.).

RESULTADOS E DISCUSSÃO

Foram compilados 1.478 registros de *L. militaris* e 6.748 registros de *L. superciliaris*, dos quais 1.029 e 4.856 foram validados, respectivamente (Apêndice 1). O mapeamento dos registros validados no portal WikiAves, somado aos registros disponíveis em Schulenberg et al. (2006, 2010) e Herzog et al. (2017), demonstrou uma expressiva extensão da área de distribuição geográfica de ambas as espécies.

A área total de extensão de ocorrência de *L. militaris* identificada foi de 1.393.143 km², um aumento de 27% em relação à área original da espécie (BirdLife International, 2018a, 2018b) (Figura 1). Para *L. superciliaris*, a área total de extensão de ocorrência foi de 960.113 km², o que representa um aumento equivalente a 12,7% da área total da distribuição geográfica conhecida para a espécie (Figura 1). As extensões nas distribuições geográficas observadas para *L. militaris* e para *L. superciliaris* acompanham,

predominante e respectivamente, a evolução dos desmatamentos nos sentidos sul e leste na Amazônia, e sentido norte e noroeste no Cerrado (Fearnside, 2010; Araujo et al., 2019; C. Silva et al., 2019), onde as coberturas vegetais nativas de florestas e savanas estão sendo continuamente substituídas por pastagens para pecuária ou monoculturas de grãos (Domingues & Bermann, 2012; Cerqueira, 2018).

Leistes militaris avança para sul (Figura 1), desde o sudeste de Rondônia e noroeste do Mato Grosso, rumo às cabeceiras do rio Xingu, alto rio das Mortes e alto rio Araguaia, no centro-sul do Mato Grosso. Avança também pelo sudeste do Pará, nordeste do Mato Grosso e oeste do Tocantins, seguindo as pastagens dos vales das bacias dos rios das Mortes e Araguaia. Todavia, desmatamentos em áreas nucleares da Amazônia têm permitido a expansão da espécie para o extremo oeste do Acre, sendo registrada no município de Cruzeiro do Sul (WA3371857, WA3103741). No Amazonas, se expandiu até Presidente Figueiredo (WA2149455, WA3145086) e, em Roraima, atingiu o extremo sul do estado, chegando a municípios como Caroebe (WA1330126) e São João da Baliza (WA3370879).

Os avanços de *L. militaris* no sul de Roraima e na região de Presidente Figueiredo, no Amazonas, podem culminar em um contato entre as suas populações disjuntas, decorrente de desmatamento ao longo da BR-174 (Barni et al., 2012), embora ainda exista um enorme bloco de floresta nativa entre as regiões atuando como barreira ecológica. Por outro lado, é também bastante notório o avanço da espécie para o leste e nordeste do Maranhão e para regiões inseridas nos limites da Caatinga (Figura 1), corroborados pelos registros efetuados no extremo oeste do estado do Ceará (WA4229308, WA4229310). A supressão das coberturas vegetais no ecótono Cerrado-Caatinga também está contribuindo para extensão de *L. militaris* para o interior do Nordeste do Brasil.

Quanto a *L. superciliaris*, sua expansão para noroeste segue pelas pastagens e lavouras do vale do rio Araguaia,

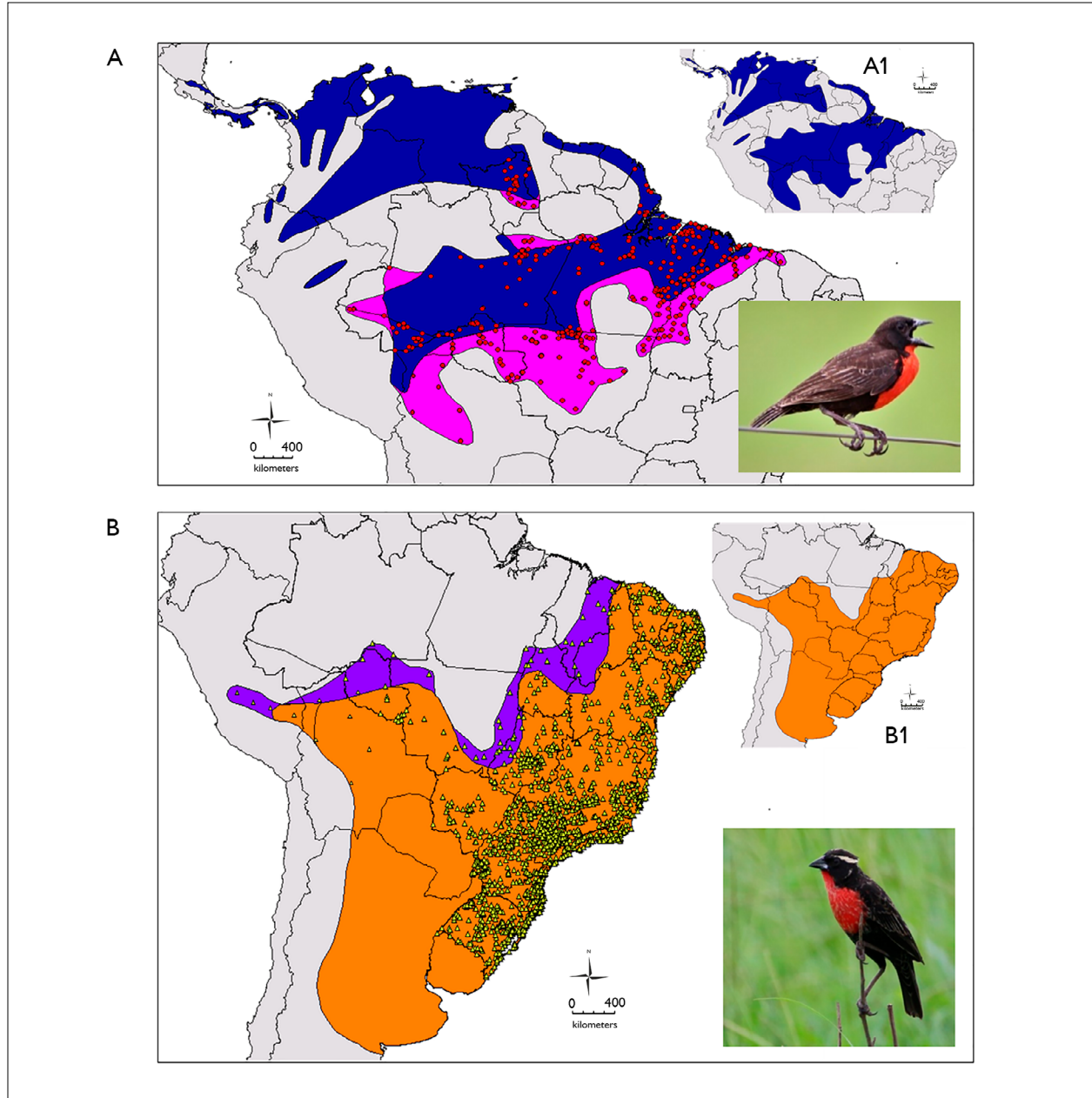


Figura 1. A) Distribuição geográfica assumida (BirdLife International, 2018a - polígono azul), registros validados (pontos vermelhos plotados), extensão de ocorrência (polígono lilás) e distribuição geográfica atualizada (polígono azul-escuro, A e A1) de *Leistes militaris*; B) distribuição geográfica assumida (BirdLife International, 2018b - polígono laranja), registros validados (triângulos amarelos plotados), extensão de ocorrência (polígono roxo) e distribuição geográfica atualizada (polígono laranja, B e B1) de *Leistes superciliaris*. Fotos: Túlio Dornas (2010). Mapas: Cássio Dornas de Oliveira (2021).

Figure 1. A) Assumed geographic distribution (BirdLife International, 2018a - blue polygon), validated records (plotted red dots), extent of occurrence (purple polygon) and updated geographic distribution (dark blue polygon, A and A1) of *Leistes militaris*; B) assumed geographic distribution (BirdLife International, 2018b - orange polygon), validated records (plotted yellow triangles), extent of occurrence (purple polygon) and updated geographic distribution (orange polygon, B and B1) of *Leistes superciliaris*. Photos: Túlio Dornas (2010). Maps: Cássio Dornas de Oliveira (2021).

entre Mato Grosso, Tocantins e Pará, progredindo pelo nordeste e pelo extremo oeste de Mato Grosso, rumo à região de Juruena, avançando para o norte de Rondônia e alcançando os campos amazônicos de Humaitá e Novo Aripuanã, no sul do Amazonas (WA3560914). Nota-se ausência de registros na região do alto rio das Mortes e rio Poxoréo, de modo que ainda não se caracterizou um avanço de *L. superciliaris* para o alto rio Xingu pela porção centro-leste de Mato Grosso (Figura 1). Para o norte, a espécie tem avançado principalmente pelas áreas de monocultura e pecuária, abertas em substituição às formações savânicas e às florestas estacionais nas regiões central e leste do Maranhão. Ferreira (2014) aponta a ocorrência de *L. superciliaris* em Imperatriz, no sudoeste do Maranhão, na transição Amazônia-Cerrado, contudo, o registro não foi considerado no mapeamento porque o indivíduo detectado aparentou ser um exemplar de *L. militaris* em plumagem de descanso.

Por sua vez, nossos resultados referentes aos limites de distribuição geográfica indicaram a existência de três zonas de contato distintas entre as espécies (Figura 2) ao longo da porção central da América do Sul, duas acompanhando majoritariamente os limites do ecótono Amazônia-Cerrado no Brasil e na Bolívia, e outra, com ligeira penetração na Caatinga, no Nordeste do Brasil. A primeira zona de contato (ZC1) encontra-se disposta no sentido leste-oeste, abrangendo uma pequena parcela do extremo sudeste do Peru, centro-norte da Bolívia, mais da metade de todo o estado de Rondônia, pequena parcela do extremo sul do Amazonas e centro-oeste do Mato Grosso (Figura 2). A segunda zona de contato (ZC2) se estabelece majoritariamente no sentido sudoeste-nordeste, compreendendo os extremos nordeste do estado de Mato Grosso e sudeste do Pará, e uma extensa faixa da porção centro-oeste do Tocantins. A terceira zona de contato (ZC3) também se encontra no sentido sudoeste-nordeste, abrangendo a porção central e nordeste do Maranhão, extremo norte do Piauí e pequena parcela no extremo noroeste do Ceará (Figura 2).

As ZC somadas representam uma área total de 883.447 km², sendo que ZC1 apresenta área de 708.979 km², ZC2, de 92.328 km² e ZC3, de 82.140 km². O comprimento máximo entre as extremidades foi de 1.840 km para ZC1, 555 km para ZC2 e 545 km para ZC3. As larguras ao longo dos polígonos delimitados variaram bastante ao longo do gradiente latitudinal/longitudinal. Na ZC1, a largura máxima foi de 430 km e mínima, de 150 km. Na ZC2, a largura máxima foi de 380 km e mínima, de 64 km; enquanto na ZC3, a largura máxima foi de 215 km e mínima, de 61 km. Contudo, vale ressaltar que alguns registros adjacentes aos novos limites de distribuição geográfica de ambas as espécies entre os polígonos ZC1, ZC2 e ZC3 projetam para o estabelecimento de iminentes sobreposições de ocorrência entre *L. militaris* e *L. superciliaris*, cujo resultado será a consolidação de uma ZC contínua (Figura 2). Futuros estudos de modelagem de distribuição serão importantes para o monitoramento e a projeção futura do avanço dessas zonas de contato.

Outra implicação das ZC entre as espécies é a possibilidade de eventos de hibridização. Filogeneticamente, *L. militaris* e *L. superciliaris* são espécies irmãs (Renssen et al., 2016), e os aspectos reprodutivos, como cortejo sexual, territorialidade e comportamento reprodutivo, são bastante similares (Crozariol, 2009; Ridgely & Tudor, 2009; Fraga 2020a, 2020b). Em Tupirama, região central do Tocantins, TD encontrou, em meados de dezembro de 2010 e 2011, bandos sintópicos de dez a 20 indivíduos de *L. militaris* e *L. superciliaris* em uma área de plantio de soja temporariamente abandonada, tomada por arbustos e vegetação herbácea. Machos adultos de ambas as espécies, com plumagem reprodutiva e de descanso, foram avistados pousados em arbustos, distantes não mais que 50 metros um do outro (WA3390941, WA3390942). Foi observada exibição de comportamento reprodutivo, com a demarcação de território e/ou dos poleiros entre os machos presentes, não sendo notado comportamento agonístico interespecífico. Outros casos de sintopia detectados entre os registros compilados são apresentados na Tabela 1.

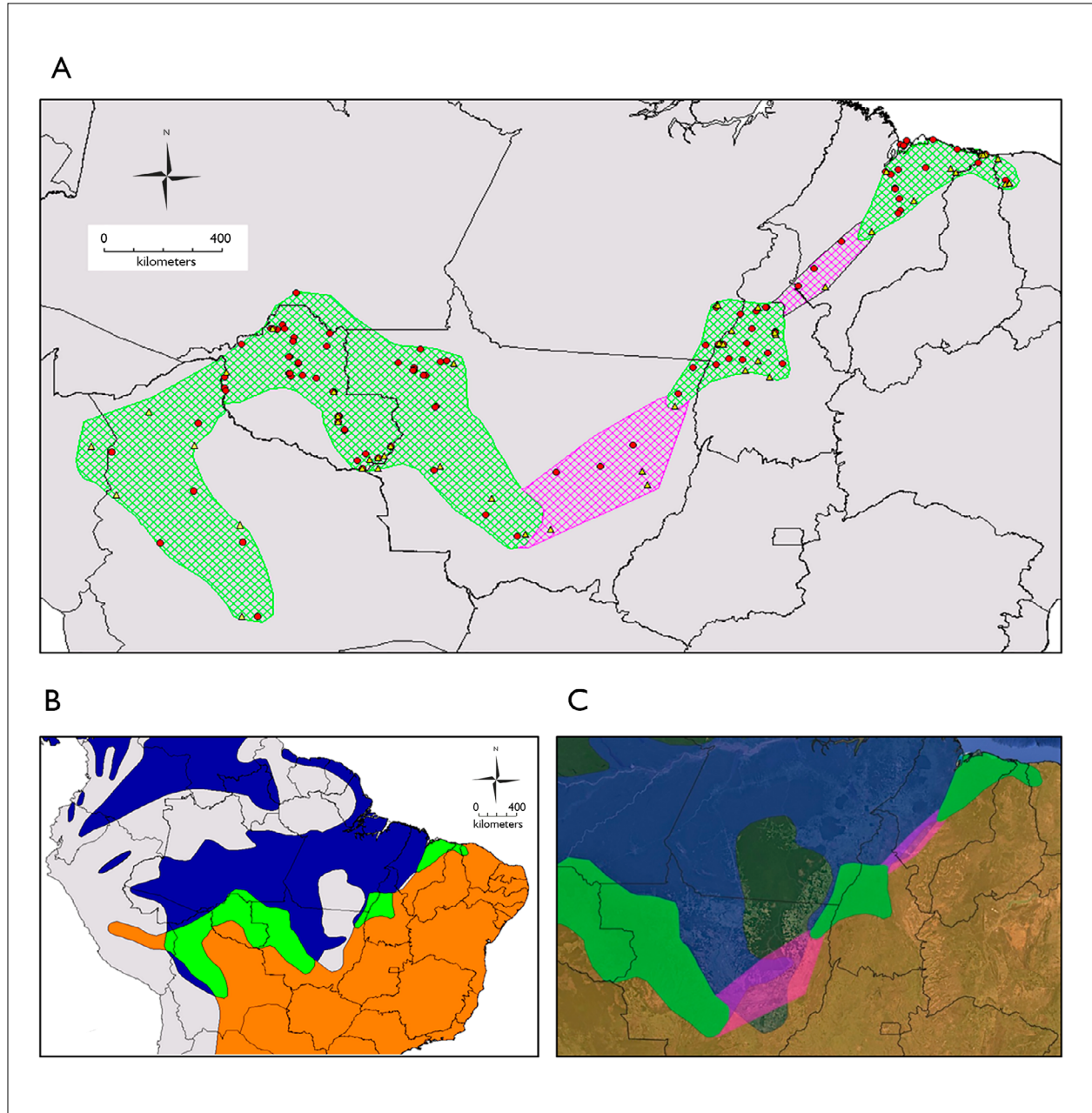


Figura 2. A) Zonas de contato (polígonos verdes hachurados) definidas para *L. militarís* (círculos vermelhos) e *L. superciliaris* (triângulos amarelos). Polígonos rosa hachurados mostram as regiões projetadas a apresentarem sobreposição de ocorrência das espécies, criando uma ZC contínua; B) disposição das ZC (verde) em relação às distribuições geográficas atualizadas de *L. militarís* (azul) e *L. superciliaris* (laranja); C) é evidente a presença de grande bloco de floresta amazônica impedindo o estabelecimento de ambas as espécies nas regiões do alto e médio rio Xingu. Mapas: Cássio Dornas de Oliveira (2021).

Figure 2. A) Contact zones (hatched green polygons) defined for *L. militarís* (red circles) and *L. superciliaris* (yellow triangles). Pink hatched polygons show the regions projected to have overlapping species occurrence, creating a continuous ZC; B) disposition of the ZC (green) in relation to the updated geographic distributions of *L. militarís* (blue) and *L. superciliaris* (orange); C) the presence of a large block of Amazonian forest is evident, preventing the establishment of both species in the upper and middle Xingu River regions. Maps: Cássio Dornas de Oliveira (2021).

Tabela 1. Casos de sintopia entre *L. militaris* (L.m.) e *L. superciliaris* (L.s.) confirmados dentre os registros compilados do portal WikiAves. * = Confirmação da sintopia em campo ocorreu após consulta direta aos autores dos registros.

Table 1. Syntopy cases between *L. militaris* (L.m.) and *L. superciliaris* (L.s.) confirmed among the records compiled from the WikiAves portal. * = Confirmation of the syntopy in the field occurred after direct consultation with the authors of the records.

Localidades	Fontes de casos de sintopia	Autoria dos registros
Arari, Maranhão	L.s. WA1128636 / L.m. WA1128634	Leila Esteves*
Raposa, Maranhão	WA2864557	Natiely Monteiro
Caseara, Tocantins	Figura 1	Tulio Dornas
Chapada de Areia, Tocantins	L.s. WA3319780 / L.m. avistamento	Tulio Dornas
Colinas, Tocantins	L.s. WA3580886 / L.m. WA3580888	Wanieulli Pascoal*
Humaitá, Amazonas	L.s. WA2220323 / L.m. WA2220320	Eduardo Bergo*
Tupirama, Tocantins	L.s. WA3390941 / L.m. WA3390942	Túlio Dornas

Algumas fotografias validadas durante a compilação, oriundas das zonas de contato, ilustram um fenótipo hipotetizado como de um suposto indivíduo híbrido: plumagem reprodutiva (ou de desgaste) de machos adultos com um supercílio de coloração branca, evidente ou discreto, porém de extensão reduzida ou parcial, não se estendendo totalmente da posição anterior aos olhos até a nuca da ave (por exemplo, WA790118, WA2581873 e WA2673004). Estudos moleculares associados à coleta científica seriada de indivíduos de ambas as espécies, machos e fêmeas, ao longo das áreas definidas como ZC, entre Bolívia e Brasil, poderão confirmar a presença de híbridos.

As extensões de distribuição geográfica e determinação das zonas de contato entre *L. militaris* e *L. superciliaris* ao longo da porção central da América do Sul entre Peru, Bolívia e Brasil sugerem forte relação com o intenso processo de desmatamento nos últimos 50 anos da floresta amazônica e das formações savânicas florestais ou campestres do bioma Cerrado (Figura 3). A verificação espacial dos registros compilados evidencia que a maioria dos pontos de extensão de ocorrência das espécies corresponde a áreas desmatadas (Figura 3). A localização dos registros de ambas as espécies nos estados de Rondônia, Mato Grosso, Tocantins, Pará e Maranhão demonstra essa relação, uma vez que esses

estados vêm apresentando grandes áreas desmatadas nas últimas décadas (Mapbiomas, 2022).

Dados de plataformas de ciência cidadã têm sido utilizados em revisões de distribuição e extensão geográfica de várias espécies de aves, dentre elas, o gavião *Harpagus diodon* (Temminck, 1823) (Lees & Martin, 2015), os passeriformes *Myiornis auricularis* (Vieillot, 1818) (Ruiz-Esparza et al., 2018), *Metopothrix aurantiaca* (Sclater & Salvin, 1866) (Amaral et al., 2019), *Trichothraupis melanops* (Vieillot, 1818) (Gomes et al., 2020) e o falconiforme *Falco peregrinus* (Tunstall, 1771) (Dornas et al., 2019). Em outros casos, registros depositados nos portais de ciência cidadã têm fornecido dados relevantes para estudos de modelagem de nicho ecológico (Sobral et al., 2014; M. Silva et al., 2017; Neto et al., 2017; J. M. Silva et al., 2018), abordagem relacionada à biogeografia ecológica, amplamente aplicada nas últimas décadas.

Desta forma, os quase 6.000 registros de *L. militaris* e *L. superciliaris* somente foram reunidos devido à possibilidade de cidadãos comuns, sem vínculos profissionais acadêmicos ou ornitológicos, produzirem de forma colaborativa um robusto banco de dados digital, no presente estudo, disponibilizado pelo portal WikiAves. Este banco de dados, portanto, fomenta o melhor entendimento sobre as mudanças nos limites da distribuição geográfica das espécies.

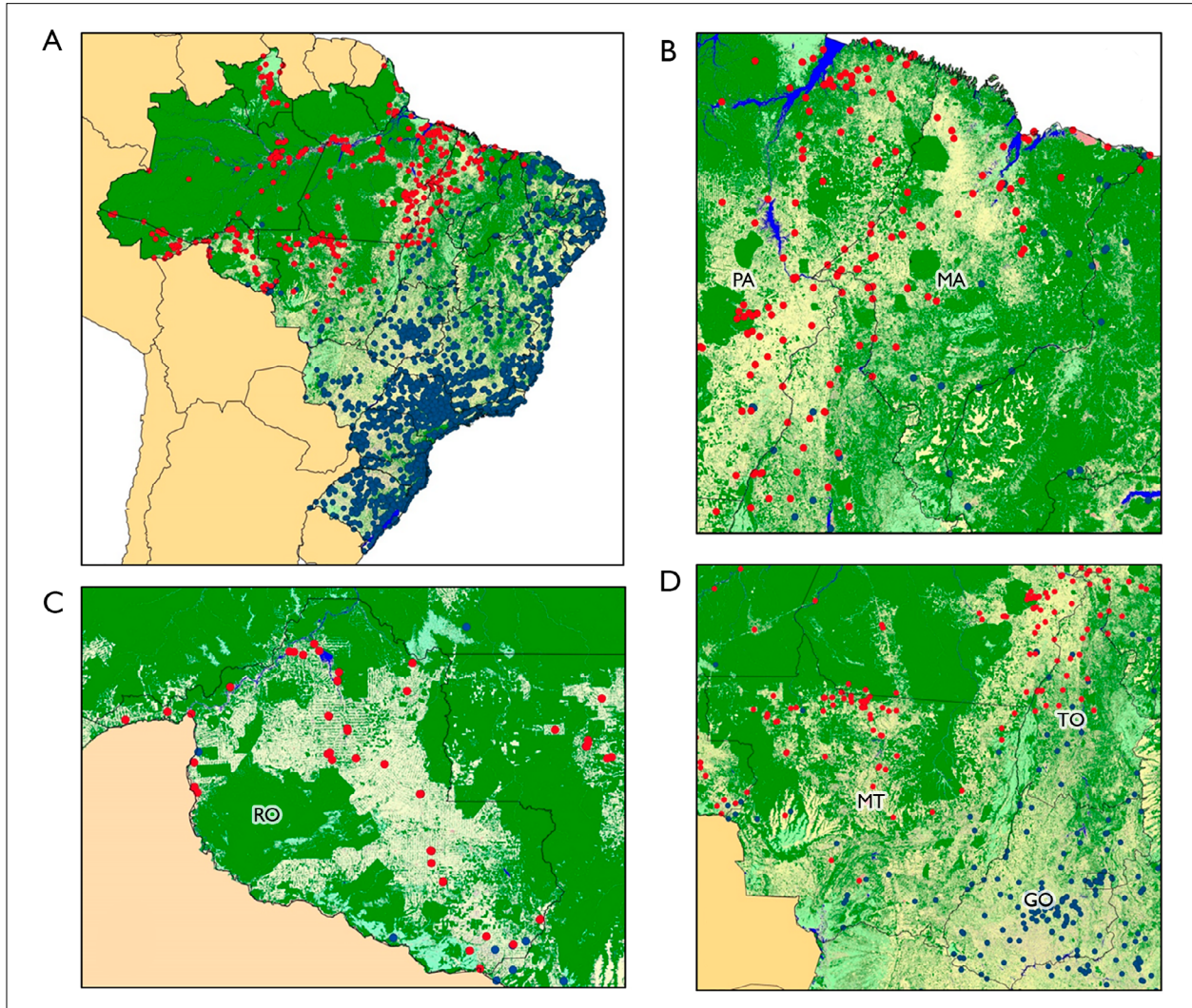


Figura 3. Registros de *Leistes militaris* (pontos vermelhos) e *Leistes superciliaris* (pontos azuis), no Brasil, concentram-se mais predominantemente em áreas desmatadas (áreas em bege) do que em áreas naturais (verde) (A) (cobertura e uso da terra seguem Mapbiomas, 2022). Recortes dos estados de Maranhão e Pará (B), Rondônia (C) Mato Grosso, Tocantins e Goiás (D) mostram forte predomínio de registros em áreas desmatadas. Mapas: Cássio Dornas de Oliveira e Túlio Dornas (2021).

Figure 3. Records of *Leistes militaris* (red dots) and *Leistes superciliaris* (blue dots) in Brazil are more predominantly concentrated in deforested areas (beige areas) than in natural areas (green) (A) (land cover and use follow Mapbiomas, 2022). Clippings from the states of Maranhão and Pará (B), Rondônia (C) Mato Grosso, Tocantins and Goiás (D) show a strong predominance of records in deforested areas. Maps: Cássio Dornas de Oliveira and Túlio Dornas (2022).

CONCLUSÃO

Nossos resultados mostram que *L. militaris* e *L. superciliaris* expandiram suas distribuições geográficas na porção central da América do Sul, ao ponto de ocorrerem em simpatria em algumas regiões no Brasil e na Bolívia. Conseguimos

identificar três zonas de contato entre as duas espécies em regiões onde há intensa alteração das paisagens naturais associada principalmente à expansão da agropecuária. Considerando que as fronteiras agrícolas e a abertura de novas pastagens para pecuária continuarão a avançar,

futuramente essas zonas de contato poderão constituir uma única e contínua grande zona de simpatria entre as espécies. *A priori*, um dos efeitos do estabelecimento destas zonas de contato pode ser a hibridização entre as duas espécies de *Leistes*, evento que poderá ser confirmado por meio de estudos populacionais, com a aplicação de análises moleculares e por meio do monitoramento da expansão da distribuição de ambas as espécies.

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CONTRIBUIÇÃO DOS AUTORES

T. Dornas contribuiu com coordenação de projeto, análise formal, conceituação, curadoria de dados, investigação, metodologia, supervisão, validação e escrita (rascunho original, revisão e edição); A. R. Neres com conceituação, curadoria de dados, investigação, metodologia, validação e escrita (rascunho original, revisão e edição); D. S. Silva com curadoria de dados, validação, metodologia e escrita (revisão e edição); e C. D. Oliveira com curadoria de dados, metodologia, validação e escrita (revisão e edição).

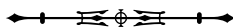
Apêndice 1. Registros de *Leistes militaris* e *L. superciliaris* compilados do portal WikiAves e status recebido após processo de validação.

Appendix 1. Records of *Leistes militaris* and *L. superciliaris* compiled from the WikiAves portal and status received after validation process.

Registros compilados no portal WikiAves de *Leistes militaris*

Validados

WA7281, WA12209, WA15729, WA23727, WA24449, WA24669, WA29046, WA40607, WA42452, WA72511, WA98059, WA104331, WA122667, WA137798, WA142132, WA145256, WA146981, WA147035, WA147217, WA147340, WA149579, WA150428, WA155111, WA169032, WA169486, WA170739, WA175993, WA176976, WA177186, WA178710, WA180161, WA180777, WA188888, WA193358, WA193366, WA194687, WA199447, WA203726, WA204058, WA211374, WA213022, WA215186, WA226845, WA234419, WA234661, WA235708, WA239696, WA242391, WA250018, WA254469, WA265077, WA279277, WA281743, WA281800, WA283765, WA288239, WA288653, WA305632, WA310197, WA313230, WA322336, WA334536, WA334565, WA336708, WA337066, WA338610, WA340133, WA340185, WA346442, WA346579, WA350012, WA351240, WA353846, WA353850, WA355958, WA361862, WA368208, WA372052, WA373561, WA373966, WA379595, WA384076, WA385606, WA389346, WA392912, WA397848, WA398735, WA399831, WA402505, WA405768, WA406659, WA408877, WA410048, WA412681, WA414549, WA415081, WA416354, WA424829, WA425142, WA426895, WA428701, WA440231, WA450677, WA453407, WA459948, WA462405, WA462939, WA465933, WA473615, WA478068, WA486931, WA487586, WA489112, WA490396, WA496512, WA496520, WA501450, WA502979, WA503392, WA504525, WA505746, WA510157, WA511305, WA516067, WA517114, WA520943, WA522001, WA522517, WA522526, WA522527, WA527504, WA529886, WA529887, WA534439, WA534459, WA535927, WA551200, WA558441, WA571914, WA571915, WA573168, WA574235, WA594685, WA621540, WA625857, WA625861, WA626268, WA627916, WA628063, WA642820, WA642840, WA645642, WA652791, WA658088, WA662028, WA662460, WA662549, WA663531, WA675324, WA675603, WA676146, WA687271, WA693726, WA711820, WA713039, WA727732, WA728584, WA734629, WA737270, WA748081, WA749161, WA756455, WA759605, WA759850, WA760776, WA761044, WA764229, WA768066, WA772055, WA777483, WA778551, WA779097, WA784148, WA784874, WA786140, WA787037, WA788829, WA800329, WA802608, WA806714, WA808713, WA808714, WA815198, WA815199, WA815230, WA815422, WA819673, WA819800, WA823881, WA827498, WA833422, WA838502, WA839393, WA849976, WA851261, WA857954, WA861468, WA862752, WA863961, WA864179, WA867940, WA869954, WA870686, WA870934, WA871236, WA872342, WA876352, WA876771, WA878209, WA896645, WA900667, WA905291, WA907934, WA908252, WA908254, WA909544, WA910923, WA919054, WA920053, WA927512, WA929597, WA933459, WA941591, WA942775, WA950157, WA950569, WA953827, WA962054, WA966059, WA971198, WA972099, WA972434, WA972435, WA978159, WA982440, WA982498, WA985492, WA992739, WA993524, WA1004488, WA1004826, WA1006289, WA1007189, WA1009516, WA1013383, WA1017744, WA1017849, WA1020421, WA1024647, WA1024720, WA1025176, WA1030127, WA1032763, WA1033280, WA1035602, WA1036829, WA1047913, WA1049526, WA1049814, WA1050796, WA1050867, WA1051067, WA1059356, WA1059571, WA1068528, WA1069936, WA1070252, WA1073790, WA1078552, WA1082740, WA1084239, WA1084962, WA1085036, WA1088169, WA1088503, WA1089843, WA1090717, WA1093327, WA1095548, WA1101854, WA1104522, WA1105633, WA1106418,



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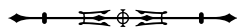
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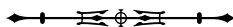


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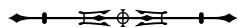
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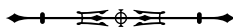
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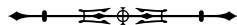
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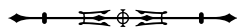
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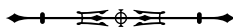
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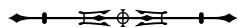
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