

Appendix 2. Supplementary tables and figures for "Non-breeding ecology of a Neotropical-Nearctic migrant, the Common Nighthawk (*Chordeiles minor*): Habitat, activity patterns, molt and migration"

Table A2.1. Number of Common Nighthawks marked at Reserva Natural Rincón de Santa María (Corrientes, Argentina) each year, and the number of these individuals that were recaptured in each following year.

Year	Number marked	Number recaptured				
		2018	2019	2020	2021	2022
2017	14	5	5	4	2	1
2018	13		7	6	4	2
2019	14			3	4	1
2020	15				4	3
2021	32					6
2022	7					

Table A2.2. Field observations of Common Nighthawk at daytime roosts in northeastern Argentina and Paraguay.

Locality	Date	Tree species	Environs	N individuals	Observers
Itatí, Itatí, Corrientes, Argentina	10 Jan 2017	<i>Tipuana tipu</i> , <i>Peltophorum dubium</i>	Urban recreational area along Paraná River	At least 3	AB, LGP
Tagatiyami, Concepción, Paraguay	13 Nov 1999	Unknown (native)	Open Cerrado forest	At least 10	AB, Alberto Madroño
Laguna Corá, 1 de mayo, Chaco, Argentina	10 Dec 1999	<i>Chloroleucon tenuiflorum</i> and <i>Prosopis</i> spp.	Gallery forest edge (Arroyo Tragadero)	At least 3	AB
Isla del Cerrito, Bermejo, Chaco	13 Dec 1999	<i>Enterolobium contortisiliquum</i>	Public park in town, near Paraguay River	At least 2	AB
Chaco National Park, Sargento Cabral, Chaco, Argentina	18–22 Jan 1998	<i>Melia azedarach</i>	Open camping area	At least 1	AB
Ituzaingó, Corrientes, Argentina	13 Feb 2015	<i>Jacaranda mimosifolia</i>	Residential area	At least 1	L. Cardinale
RNRSM	5–8 Mar 2021	<i>Pinus</i> spp.	Mature pine invasion	At least 8	NF, OV
Reserva Natural Prov. Iberá–Reserva Yermalito, Corrientes, Argentina	20 & 26 Jan 2020; 1 Mar 2020	<i>Phytolacca dioica</i> , <i>Handroanthus heptaphyllus</i> , <i>Pterogyne nitens</i>		4–7	H. Pargeter

Table A2.3. Recordings of Common Nighthawk in South America, in sound collections at xeno-canto.org, macaulaylibrary.org, and wikiaves.com.br (reviewed 5 February 2023). Records are arranged by time of year, from the beginning (September) to the end (April) of the non-breeding season in South America.

Location	Date	Local Time	Type of sound	Citation
Cáqueza, Cundinamarca, Colombia	12 Sep 2020	19:11 (1 h 15 min after sunset)	wing boom	Villafañe 2022, ML485705401
Foz do Iguaçú, Paraná, Brasil ¹	19 Oct 2020	18:40 (7 min before sunset)	call	Farias 2022, WA5094489
Goiânia, Goiás, Brazil ²	27 Oct 2021	18:12 (8 min before sunset)	call	Araujo de Oliveira, XC683145/WA4568681
Campo Formoso, Cercadinho, Bahia, Brazil	1 Nov 2020		call	Santos 2020, ML291497161
Mateiros, Galhão, Tocantins, Brazil	3 Nov 2022		clucking	Lopes Nascimento 2022, ML506463721
Arroyo Algodón, General San Martín, Córdoba, Argentina ³	3 Nov 1983	19:30 (10 min before sunset)	call	Fraga 1983, XC465123
Foz do Iguaçú, Paraná, Brasil ⁴	23 Jan 2023	5:40 (16 min before sunrise)	call	Farias 2023, WA5237841
Praia do Laranjal, Pelotas, Rio Grande do Sul, Brazil	31 Jan 2016	20:33 (2 min after sunset) ⁵	call	Jacobs 2016, XC308563
Río Cuarto, Córdoba, Argentina	8 Feb 2019		call	Avalos 2019, ML140215841
Reserva Biológica das Perobas, Tuneiras do Oeste, Paraná, Brazil	9 Feb 2020	5:15 (1 h before sunrise)	call	Silva 2020, ML208496301/WA3680492

Goiânia, Goiás, Brazil	12 Feb 2018	twilight ⁶	call	D'Acosta 2018, XC405407
RNRSM, Ituzaingó, Corrientes, Argentina	10 Mar 2021	19:19 (11 min after sunset)	call, wing boom	Fariña 2021, XC728651; this study
Rio Aiuanã, Amazonas, Brazil	12 Apr 2012	18:34 (5 min before sunset)	call, wing boom	Cohn-Haft 2012, XC98994

¹Bird in a flock of 8 individuals, flying at medium height and interacting with others.

²Photographed, perched along a horizontal branch.

³Nighthawks flying over a marshy area.

⁴Adult in flight

⁵Time given as 08:33 in Wikiaves and Xeno-canto, but the correct time is 20:33 (F. Jacobs in litt., 5 February 2023).

⁶Individual perched on a horizontal branch, preparing for night flight. Dozens of individuals flying around in the nearly dark sky feeding on crepuscular insects.



Figure A2.1. Locations of three adult female Common Nighthawks on breeding grounds in Florida, USA, for individuals A) RSM140, at night on 18 May, 7, 17, and 27 June 2019 (northern points) and 7, 17, 27 July, and 6, 16, and 26 August (southern points, 1 hidden) in open pine forest at Citrus Wildlife Management Area; B) RSM198, at night on 29 April, 3, 7, 11, 15, and 22 May, 5, 19 June, 3, 17, and 31 July, and 14 and 28 August, 2019 (1 point hidden), in the city of Naples; and C) RSM152, at night (dark pink) on 9 and 19 May, 18 June, and 17 August 2020, and during the day (light pink) on 14 May, 3 June, 3 July, 2 August, and 1 September (2 points hidden) at Marjorie Harris Carr Cross Florida Parkway near the I-75 Highway.

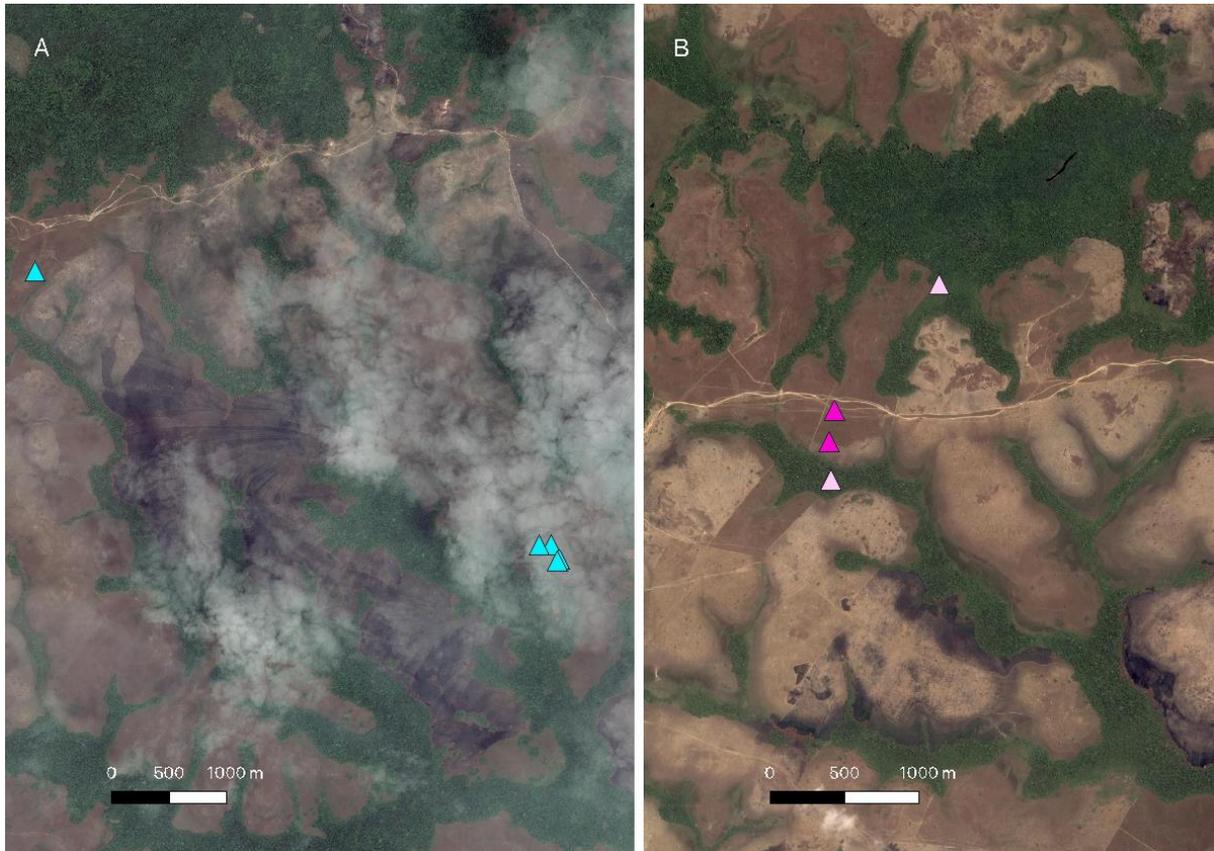


Figure A2.2. Locations of two adult female Common Nighthawks at northbound stopover sites, 43 km from one another, in the Orinoco region of Colombia, overlaid on Google Earth images. Triangles indicated fixes taken for A) RSM198 at night on 1, 5, 9, 13, 17, and 21 April 2019 (1 point hidden) and B) RSM152 at night (dark pink) on 9 and 19 April 2020 and during the day (roost sites, light pink) on 4 and 14 April 2020. Dark green is gallery forest and light brown appears to be grassland, probably used for cattle ranching.

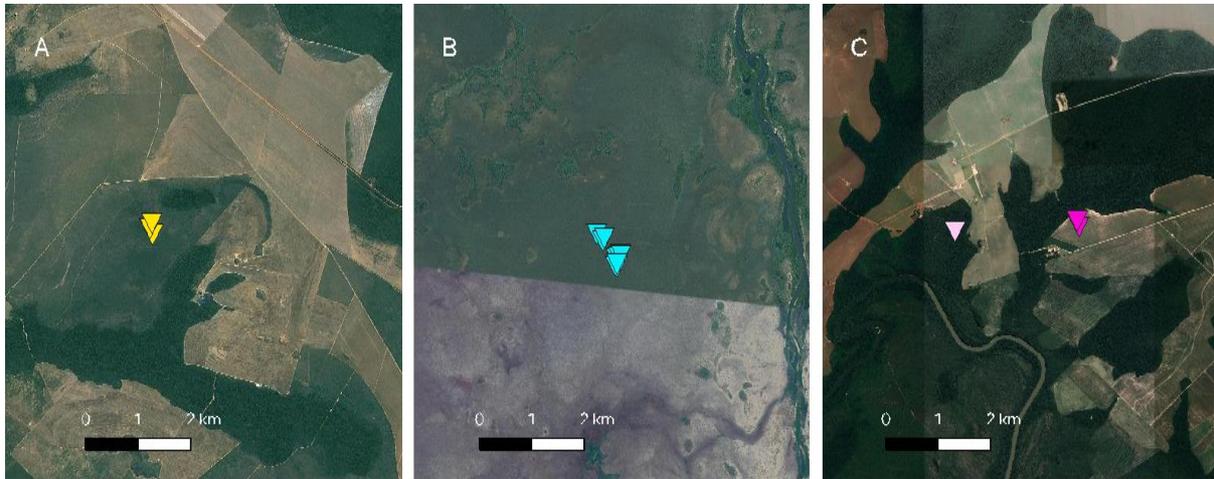


Figure A2.3. Locations of three adult female Common Nighthawks on first non-breeding grounds in the Cerrado region of Brazil, for individuals: A) RSM140, at night on 14 and 24 November and 4 and 14 December 2019 (1 point hidden) in Brasnorte municipality, Mato Grosso, apparently in or over scrubby native vegetation between gallery forest of the Rio Papagaio (dark green) and cultivated lands (beige); B) RSM198, at night on 16, 23, and 30 October; 6, 13, 20, and 27 November; 4, 11, 18, and 25 December 2019, and 1 and 8 January 2020 (5 hidden), at Isla do Bananal, Tocantins, apparently in or over open scrub; and C) RSM152 taken at night (dark pink) on 8 and 18 October 2020 in or over cultivated land (beige), and during the day (light pink, roosting; 1 hidden) on 12 and 22 October 2020, in gallery forest of the Rio Teles Pires, in Sorriso municipality, Mato Grosso. Darker linear feature on the right of the image in (B) is the Rio Riozinho.