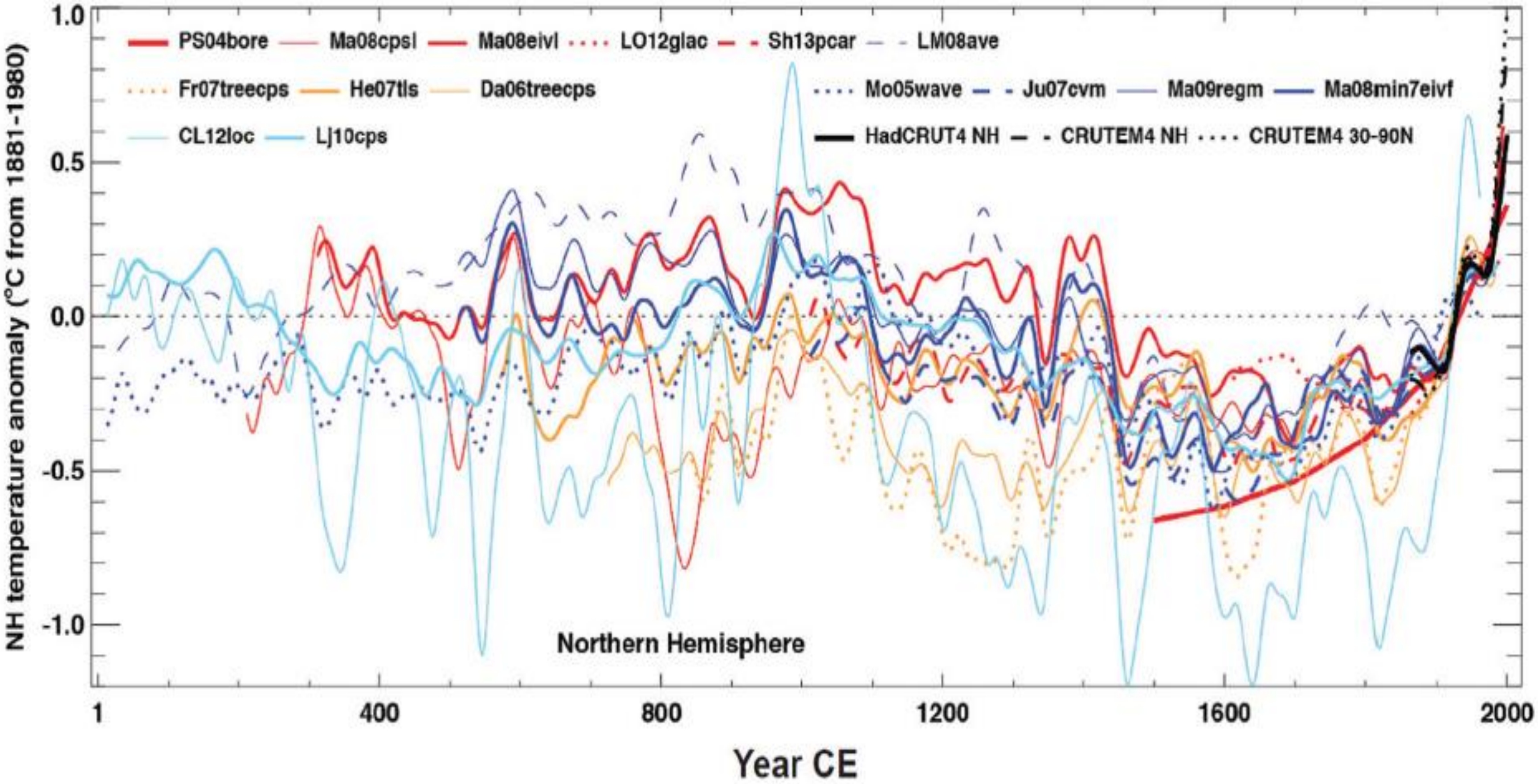
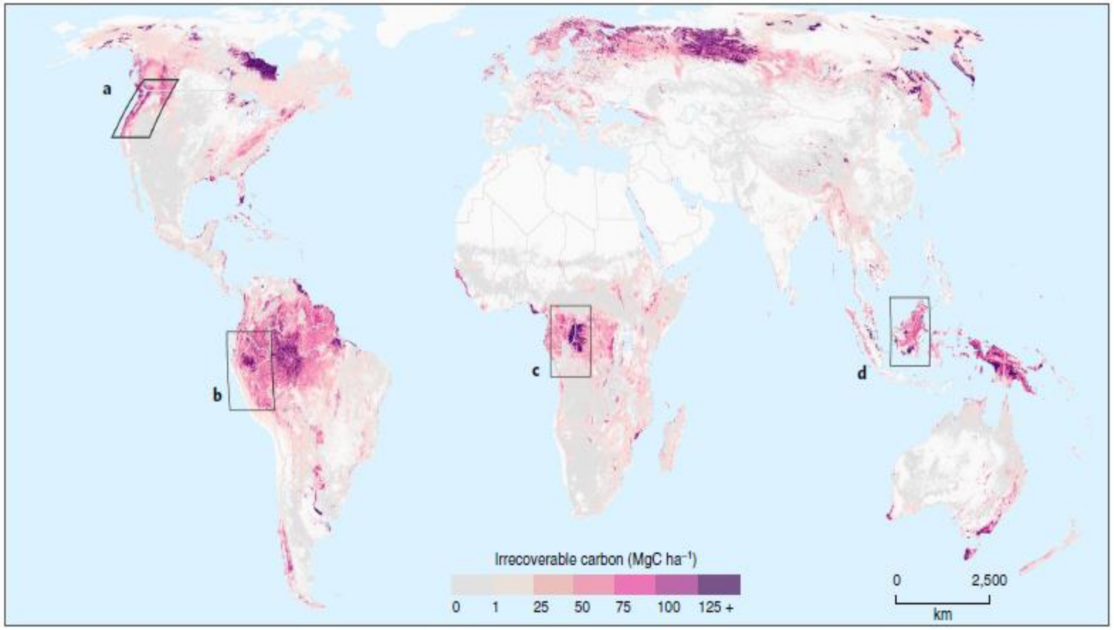
INSTITUTO TECNOLÓGICO VALE

Biobancos promovendo suporte à Biodiversidade

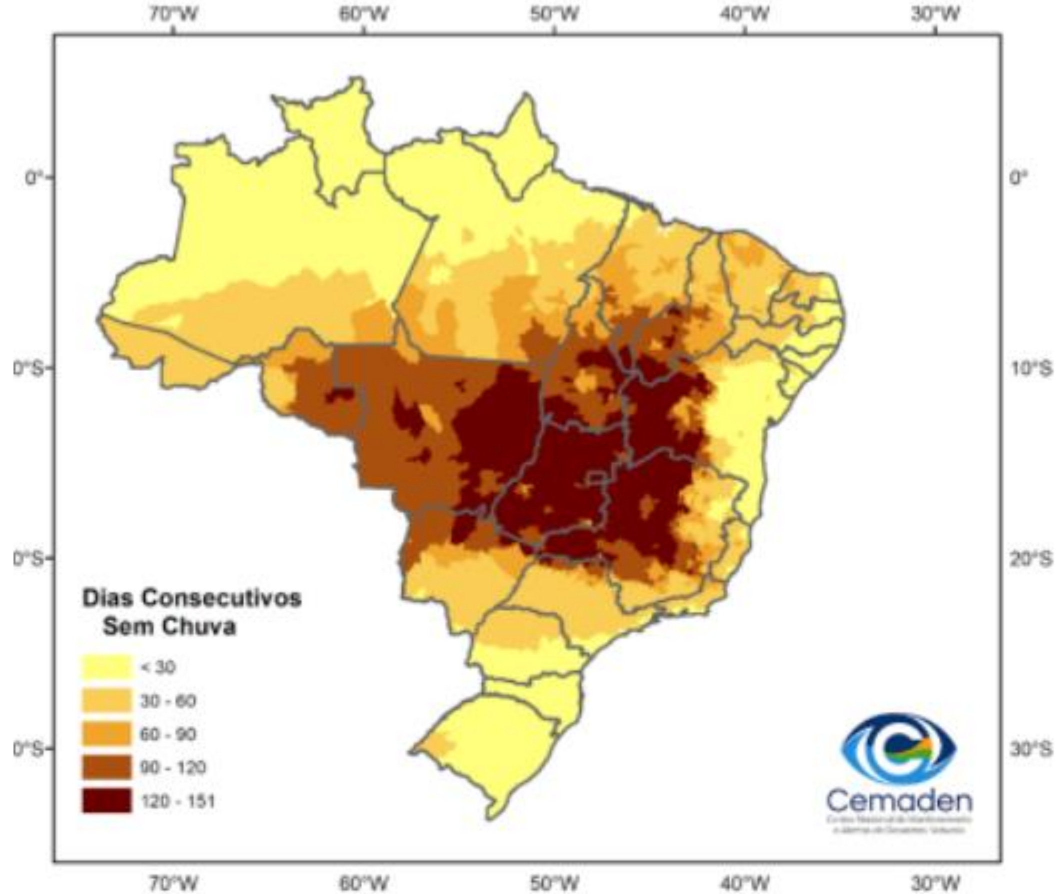
Alexandre Aleixo

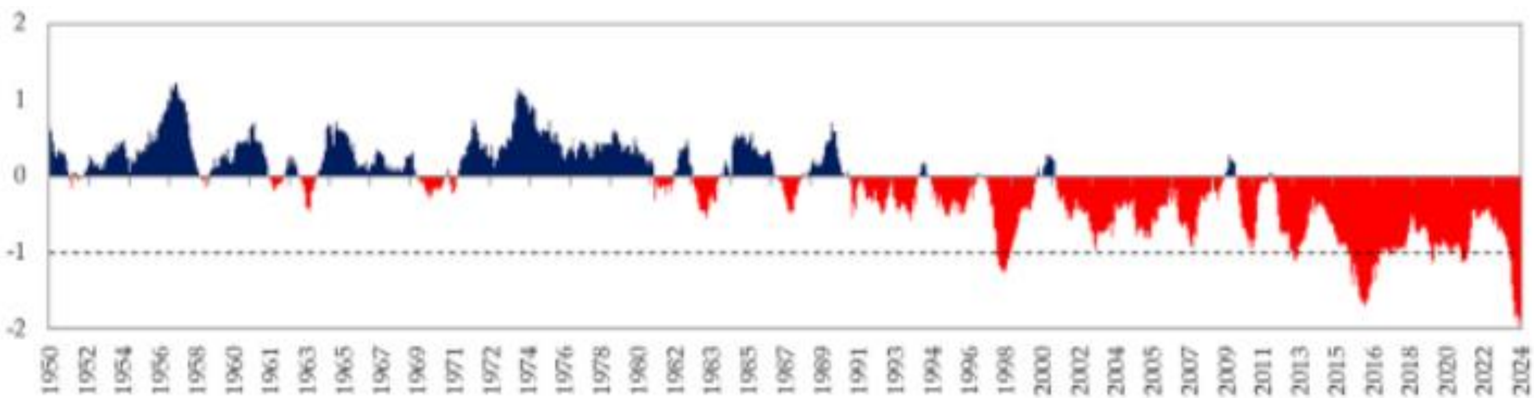


https://www.ncei.noaa.gov/sites/default/files/2021-



Noon, M.L., Goldstein, A., Ledezma, J.C. et al. Mapping the irrecoverable carbon in Earth’s ecosystems. Nat Sustain (2021).


70°W
60°W
50°W
40°W
30°W
0°
10°S
20°S
30°S
Dias Consecutivos
Sem Chuva
< 30
30 - 60
60 - 90
90 - 120
120 - 151
Cemaden


2
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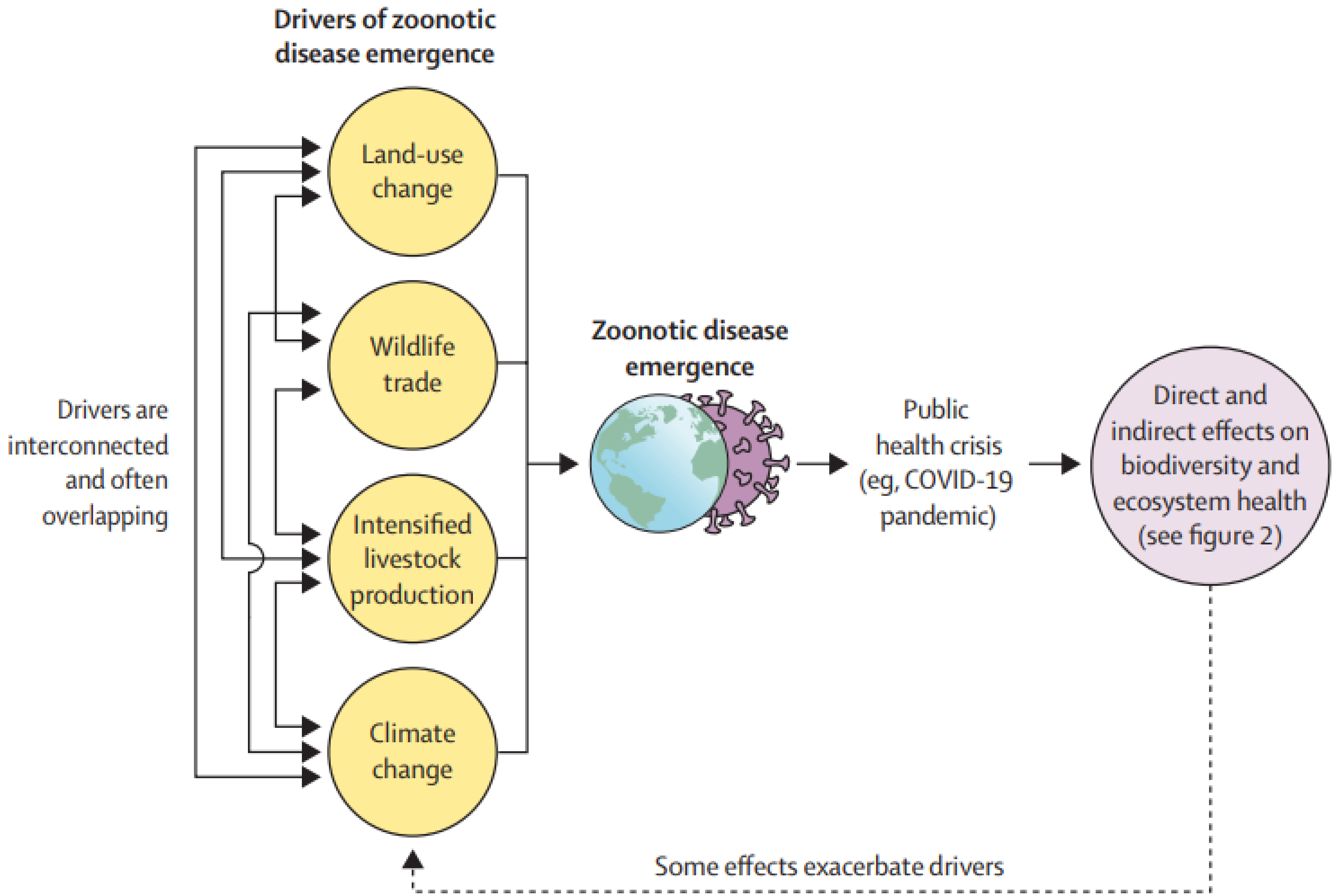
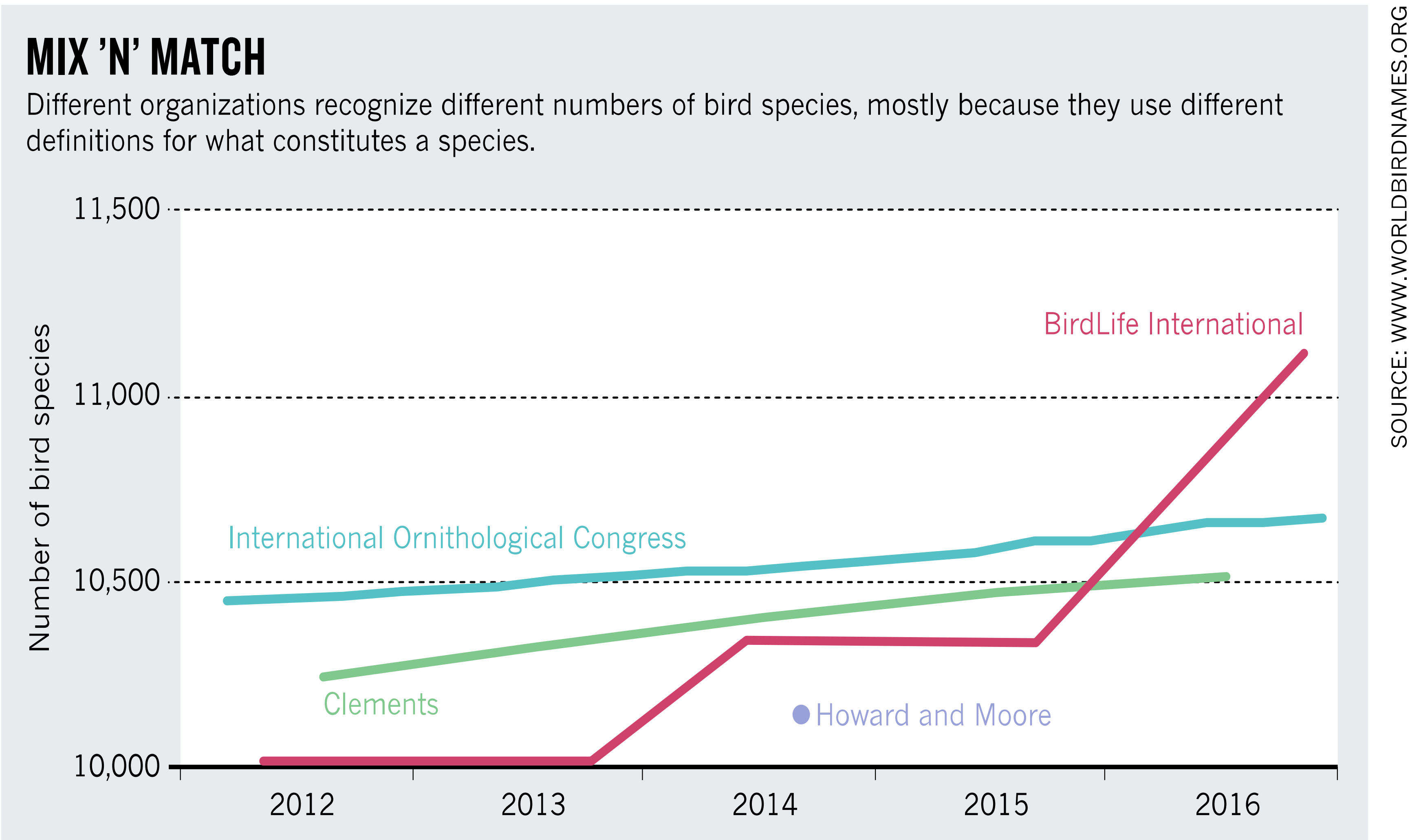
2024

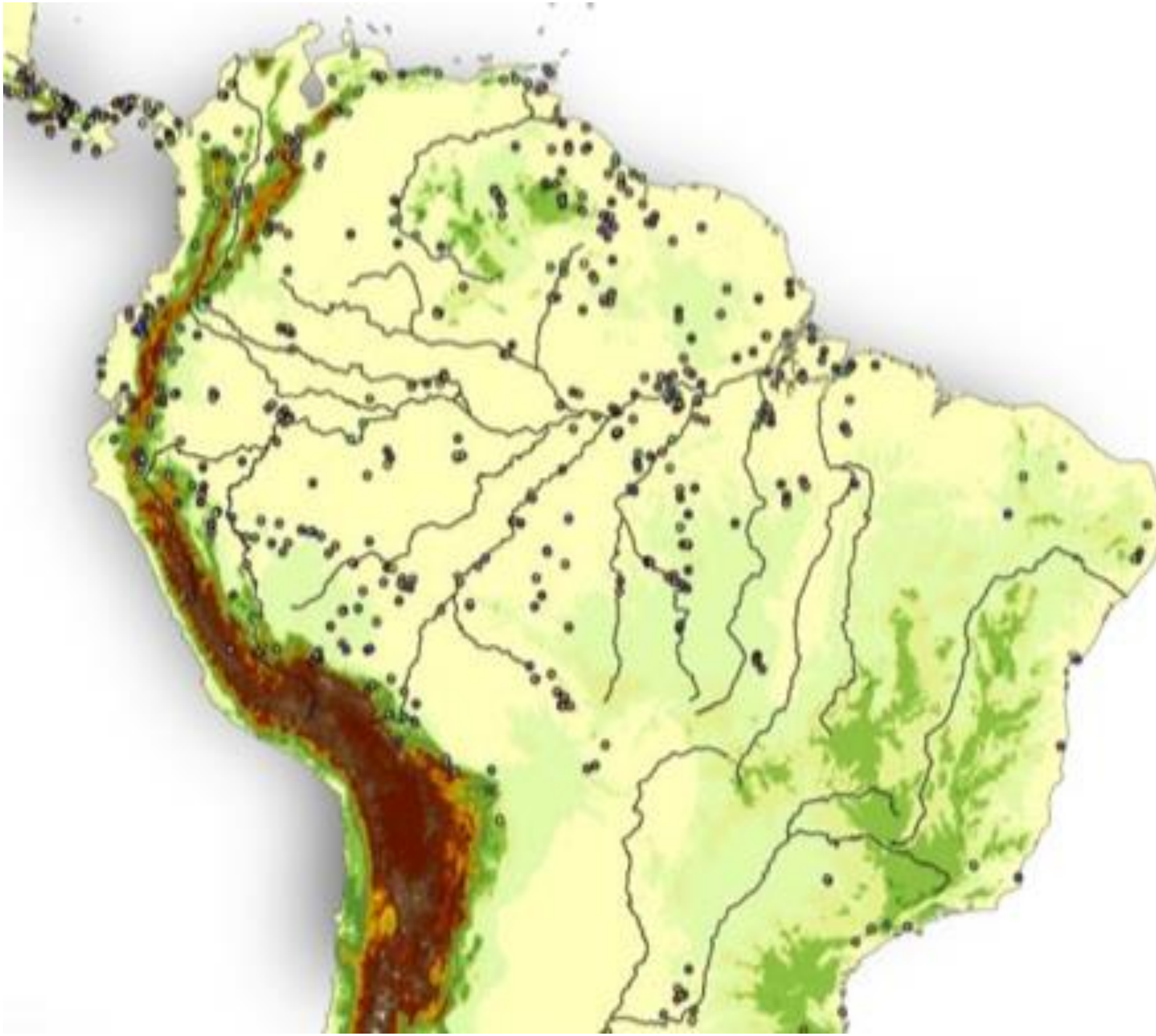


Kawler et al. 2021. Lancet Planet Health, 5: e840-50.



Garnett, St. T. & L. Christidis. 2017. Taxonomy anarchy hampers conservation. Nature 546: 25-27.

- Quantas espécies existem?
- Por que isso importa?

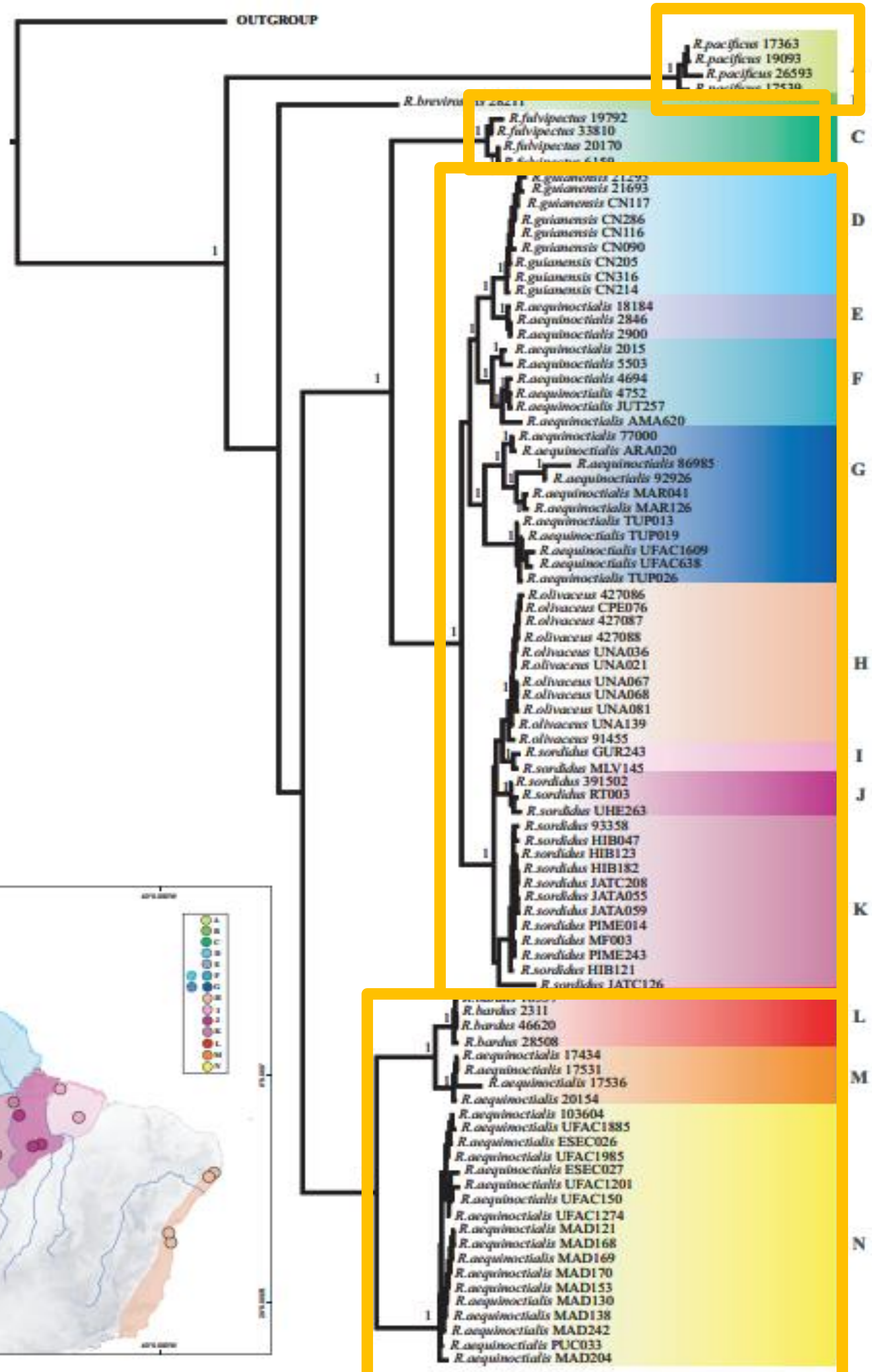


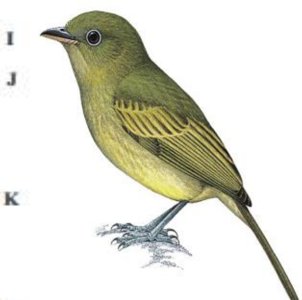

27 10:19

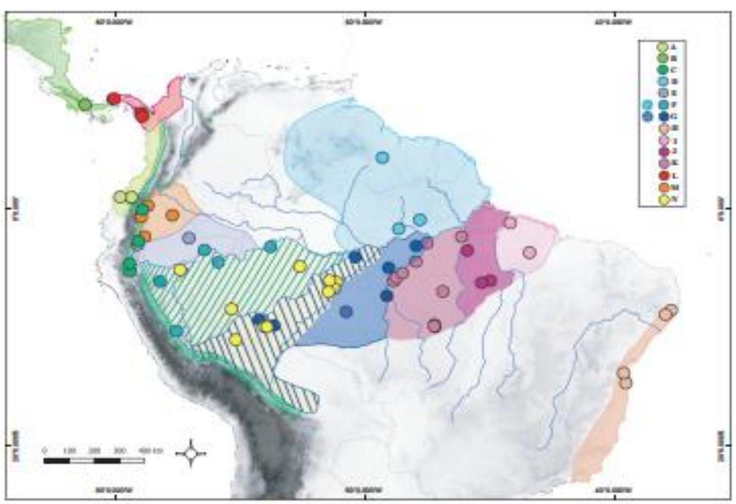
ORIGINAL ART

Integrative
reveals a n

Carlynne C. Sim
Alexandre Aleix







Molecular Phylogenetics and Evolution 82 (2015) 95–110

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Molecular Phylogenetics and Evolution

journal homepage: www.elsevier.com/locate/ympev

Cryptic speciation in the white-shouldered antshrike (*Thamnophilus aethiops*, Aves – Thamnophilidae): The tale of a transcontinental radiation across rivers in lowland Amazonia and the northeastern Atlantic Forest

Gregory Thom [a], Alexandre Aleixo [b,*]

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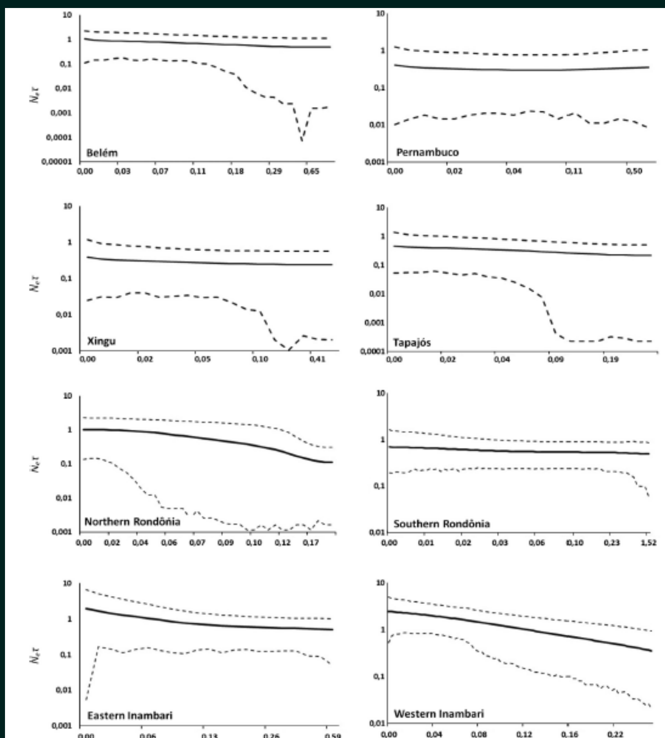
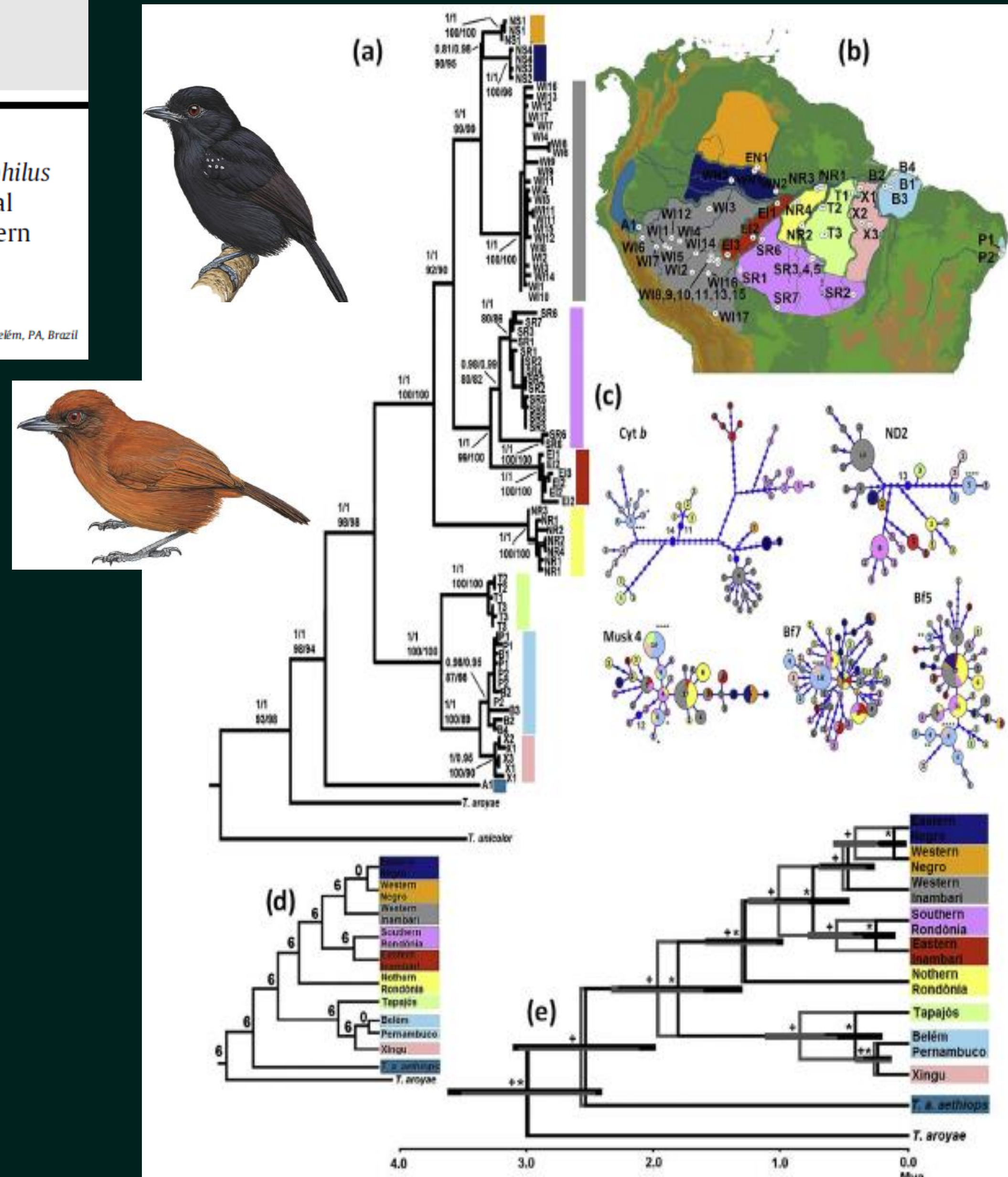
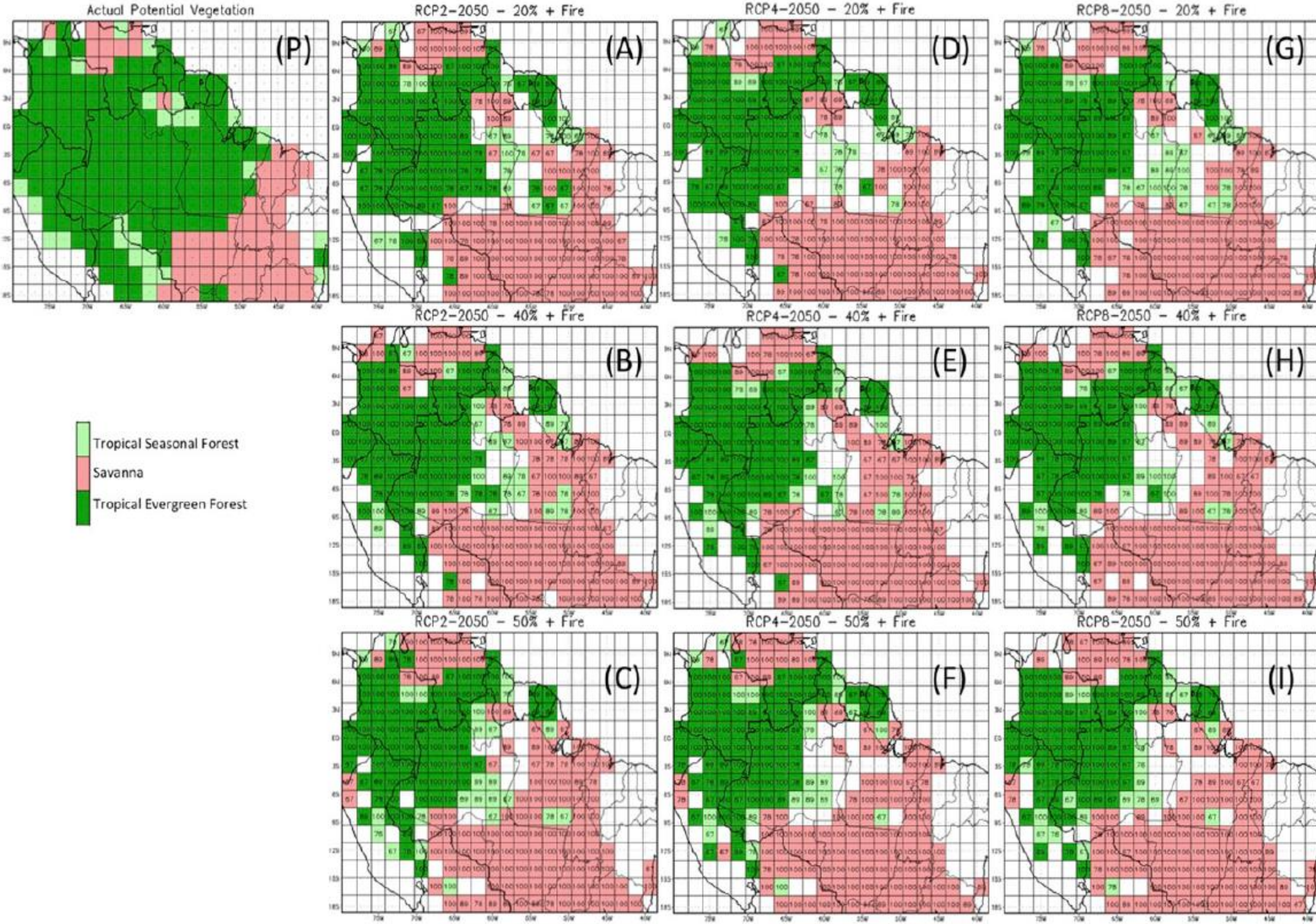
[b] Coordenação de Zoologia, Museu Paraense Emílio Goeldi, Caixa Postal 399, CEP 66040-170 Belém, PA, Brazil





Tipping points

- 4º C
- 40% deforestation



Nobre et al. 2016. *PNAS* 113: 10759-10768.

The genomics era


ATENÇÃO! NITROGÊNIO LÍQUIDO.
HANDLE WITH CARE
REUSABLE CONTAINER
FRAGILE / FRÁGIL

scientific reports

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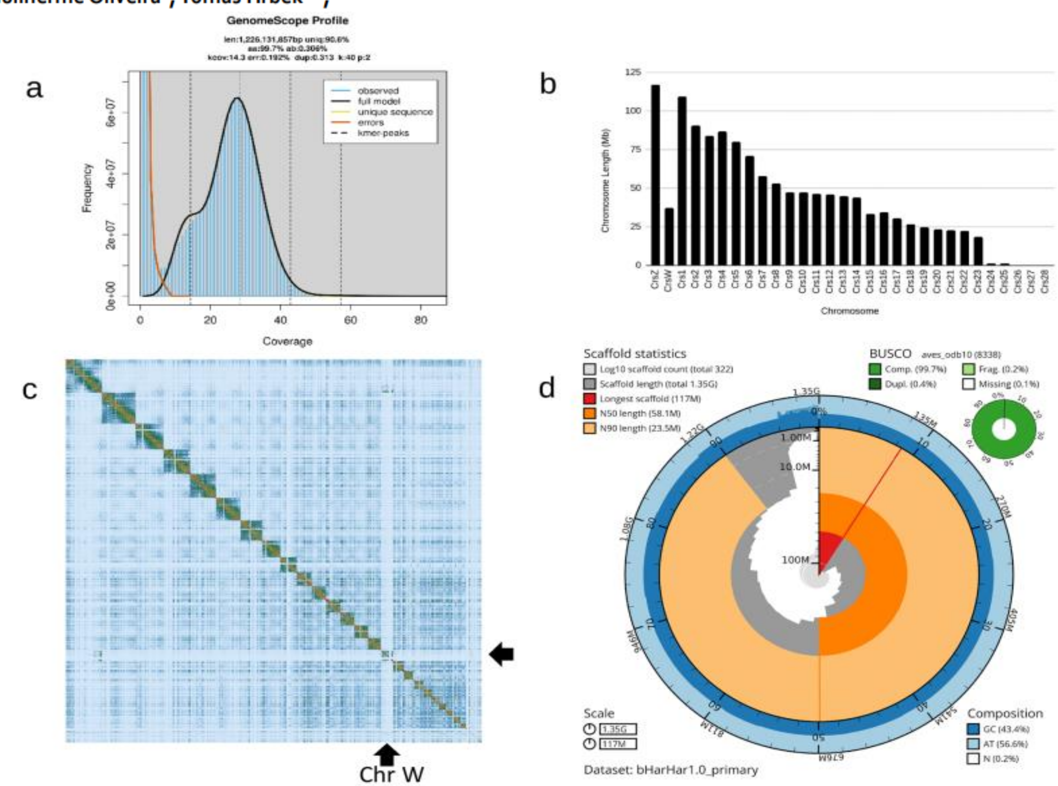
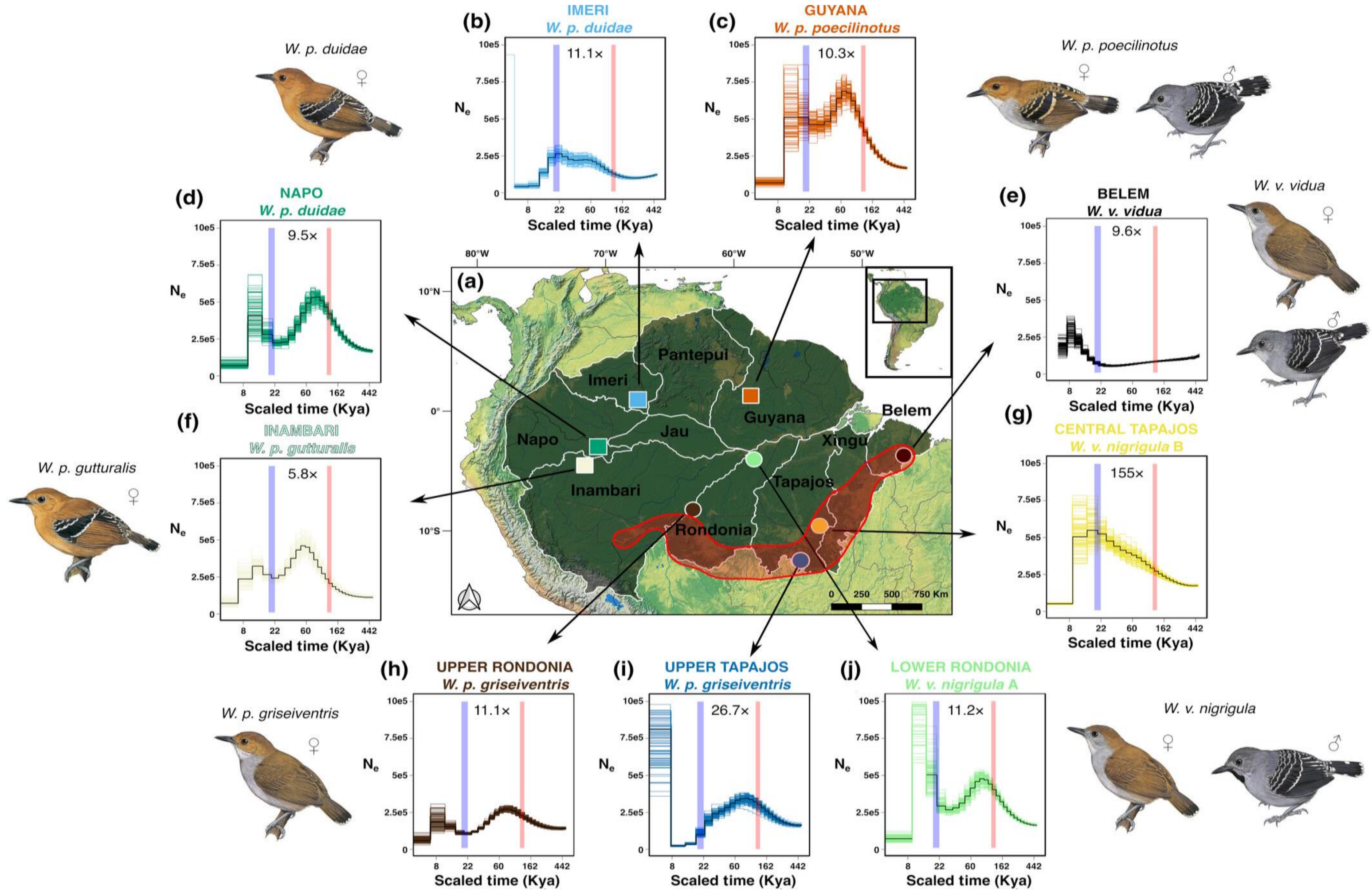
OPEN

A reference genome for the Harpy Eagle reveals steady demographic decline and chromosomal rearrangements in the origin of Accipitriformes

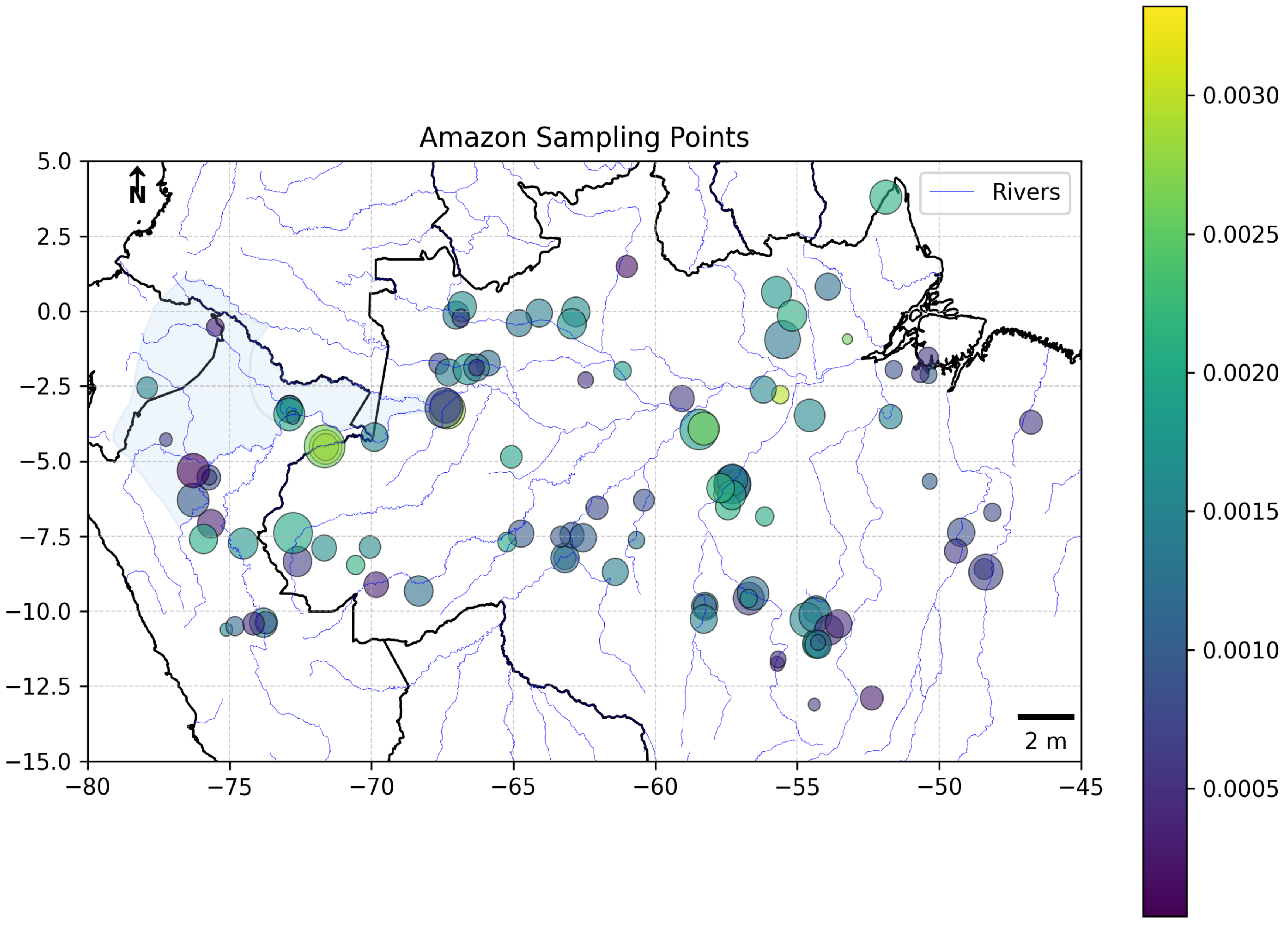
Lucas Eduardo Costa Canesin[1], Sibelle T. Vilaça[1], Renato R. M. Oliveira[1], Farooq Al-Ajli[2,4], Alan Tracey[2], Ying Sims[2], Giulio Formenti[2], Olivier Fedrigo[2], Aureo Banhos[5], Tania M. Sanaiotti[6], Izeni P. Farias[7], Erich D. Jarvis[2,3], Guilherme Oliveira[1], Tomas Hrbek[7,8], Vera Solferini[9] & Alexandre Aleixo[1]✉



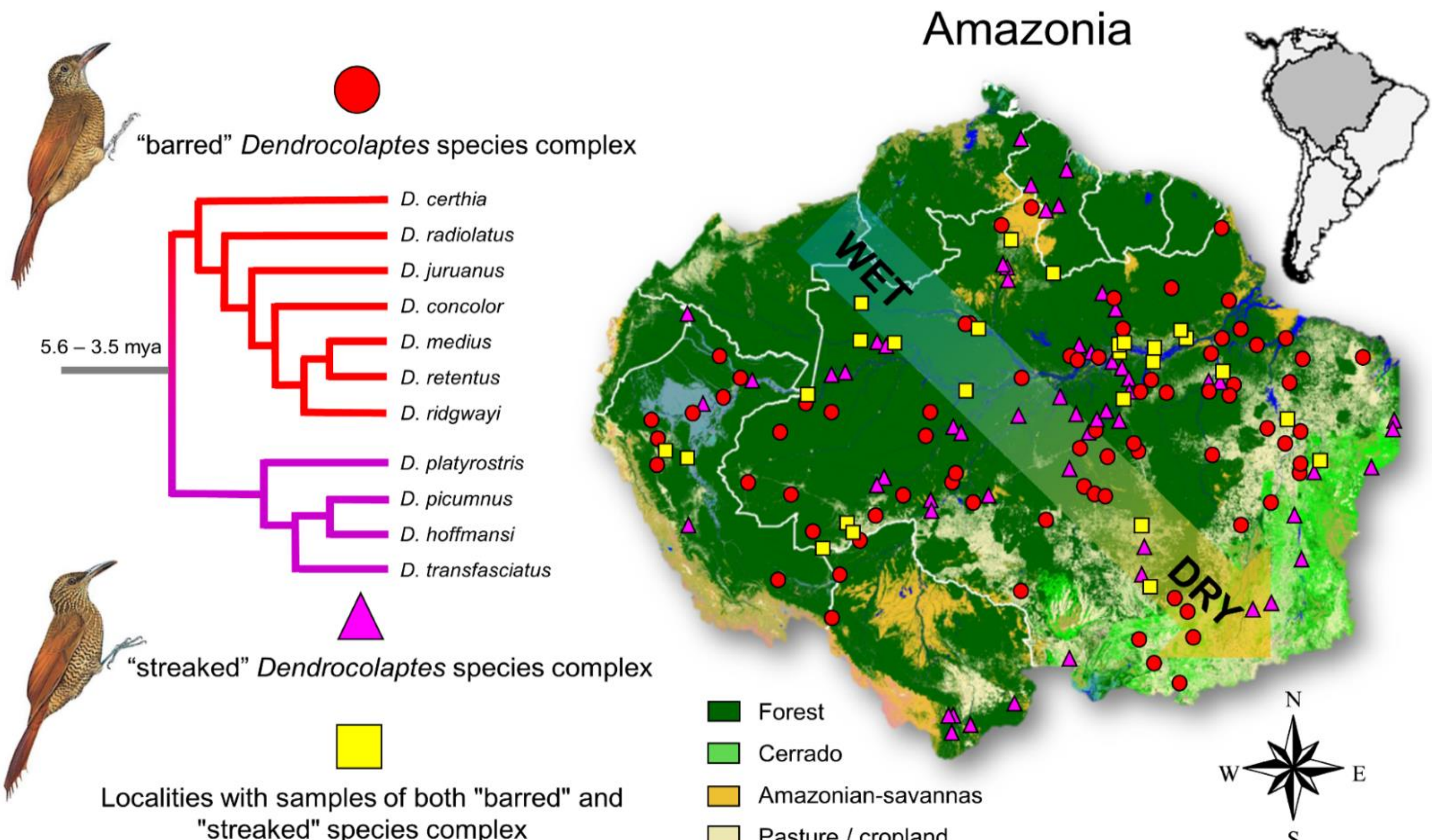
Whole genomes show contrasting trends of population size changes and genomic diversity for an Amazonian endemic passerine over the late quaternary



Ecology and Evolution, Volume: 14, Issue: 4, First published: 23 April 2024, DOI: (10.1002/ece3.11250)



Amazon Sampling Points
Rivers
N
2 m
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−12.5
−15.0
−80
−75
−70
−65
−60
−55
−50
−45
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005


"barred" Dendrocolaptes species complex
D. certhia
D. radiolatus
D. juruanus
D. concolor
D. medius
D. retentus
D. ridgwayi
5.6 – 3.5 mya
D. platyrostris
D. picumnus
D. hoffmansi
D. transfasciatus
"streaked" Dendrocolaptes species complex
Localities with samples of both "barred" and "streaked" species complex
Amazonia
WET
DRY
Forest
Cerrado
Amazonian-savannas
Pasture / cropland
N
W
E
S

Agradecimentos

ITV

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Josiane Martins
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- Lucas Eduardo Costa Canesin

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