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The LifeWatch ERIC Biodiversity & Ecosystem eScience Conference

Seville
22-24/05/23

Threats and challenges to biodiversity and ecosystem conservation from an eScience perspective

LifeWatch ERIC

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Nyctalus lasiopterus populations' trends in Southern Europe: The Bermuda Triangle

Elena Tena (Estación Biológica de Doñana- CSIC)

Estación Biológica Doñana CSIC · CSIC Consejo Superior de Investigaciones Científicas · SUMHAL · Zoobotánico Jerez

Nyctalus lasiopterus

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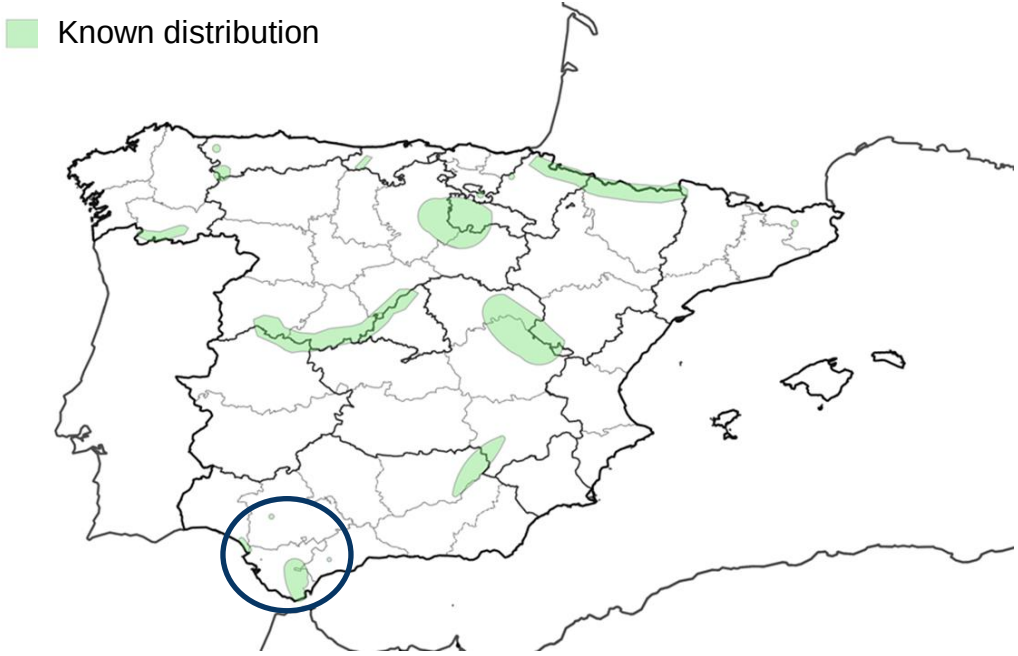
Nyctalus lasiopterus' populations



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Nyctalus lasiopterus' populations

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Population's census: Doñana

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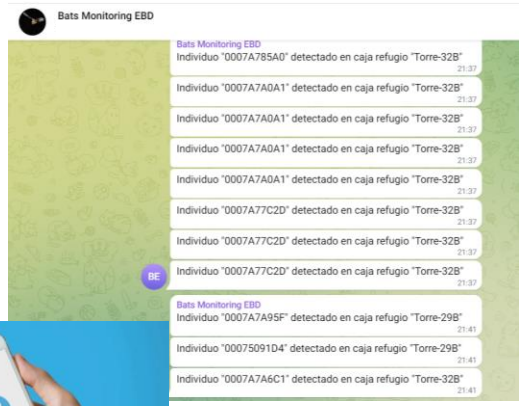
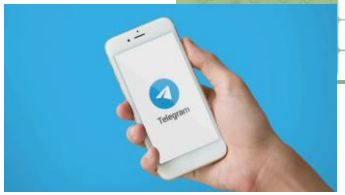
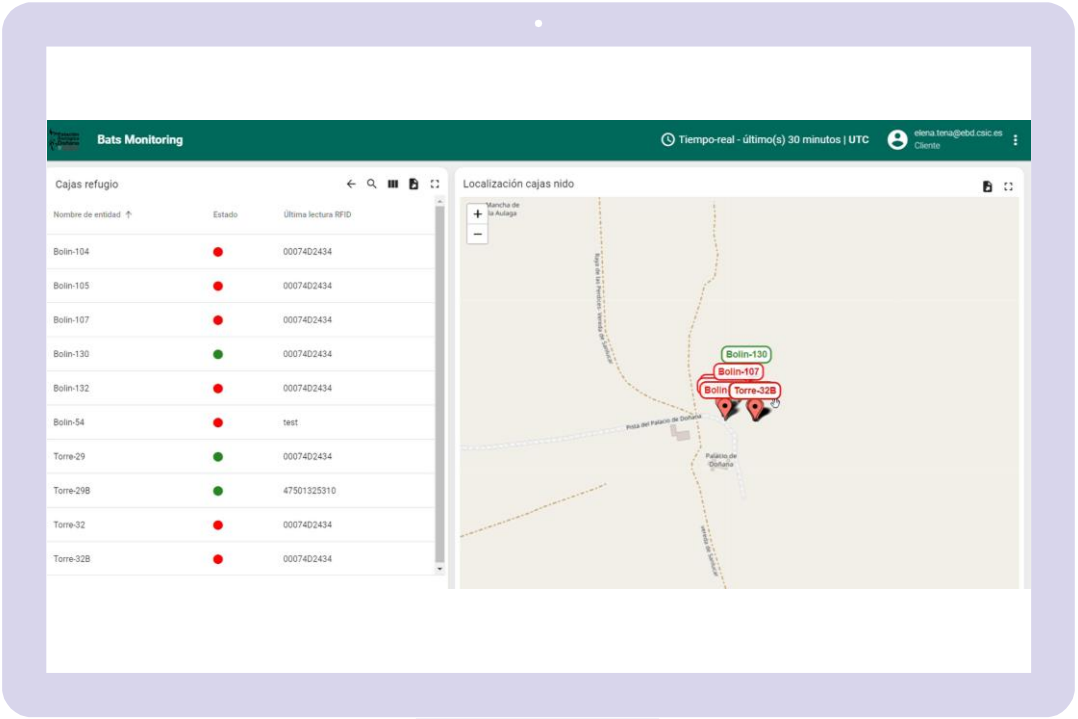
Population's census: Doñana

Things Board, online platform







Population's census: María Luisa & Jerez

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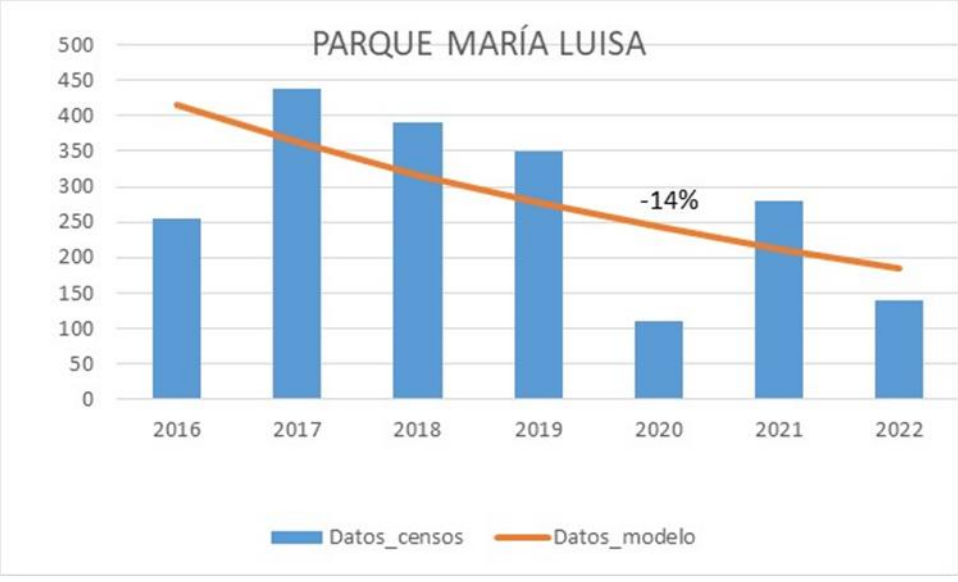
Census from 2016-2022: María Luisa

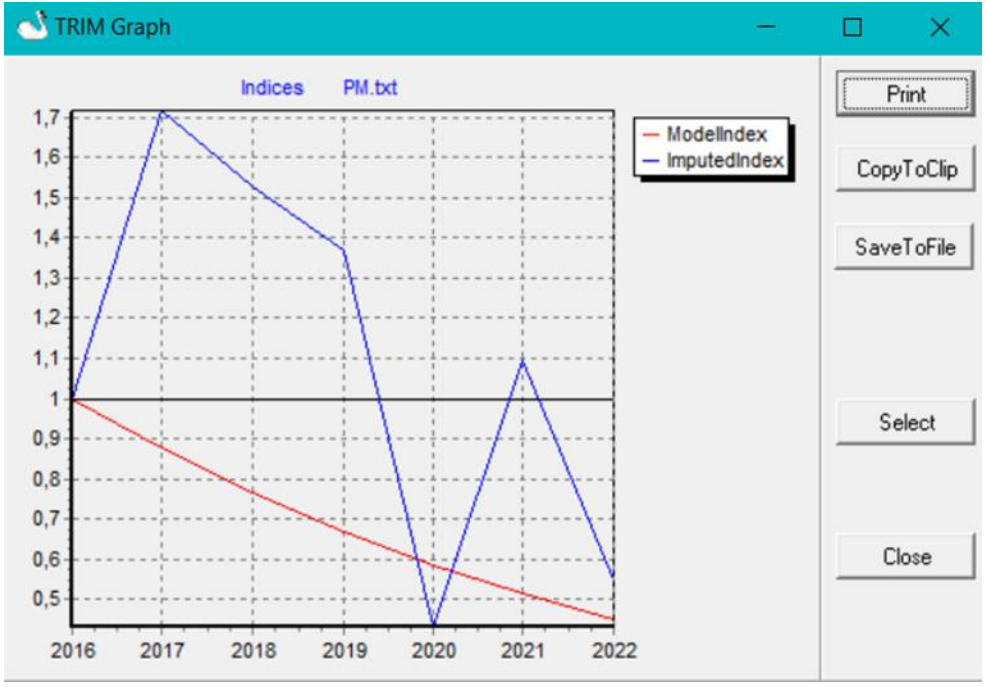


Steep decline ($p<0.01$)

-14% anual

68% decline

Census from 2016-2022: María Luisa



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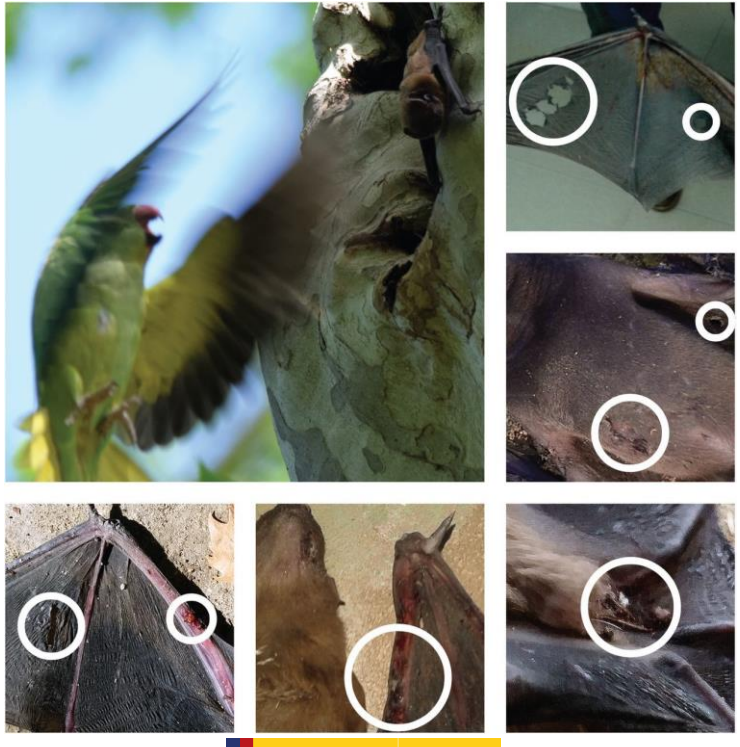
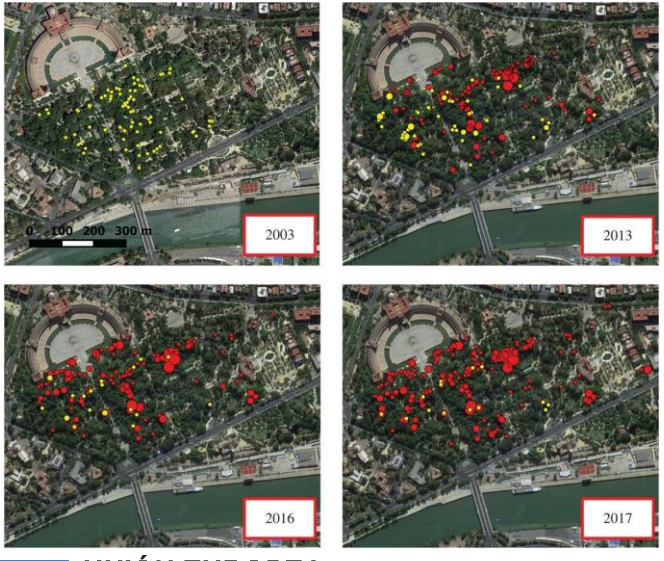


Research article

Nest-site competition and killing by invasive parakeets cause the decline of a threatened bat population

Dailos Hernández-Brito ✉, Martina Carrete, Carlos Ibáñez, Javier Juste and José L. Tella

Published: 09 May 2018 | https://doi.org/10.1098/rsos.172477



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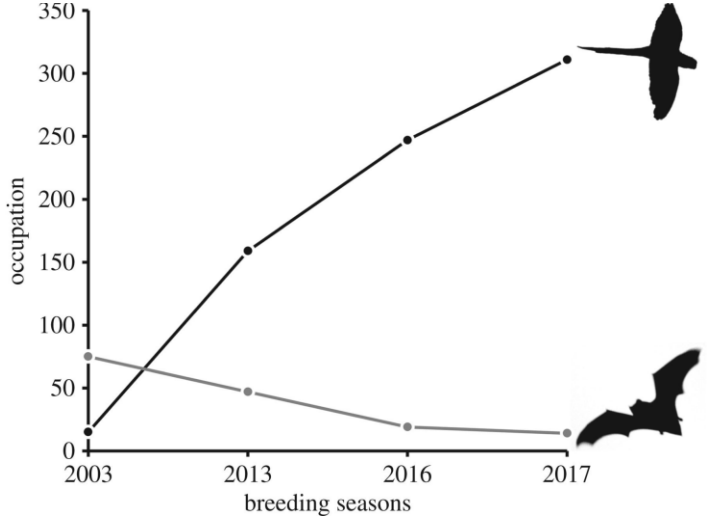
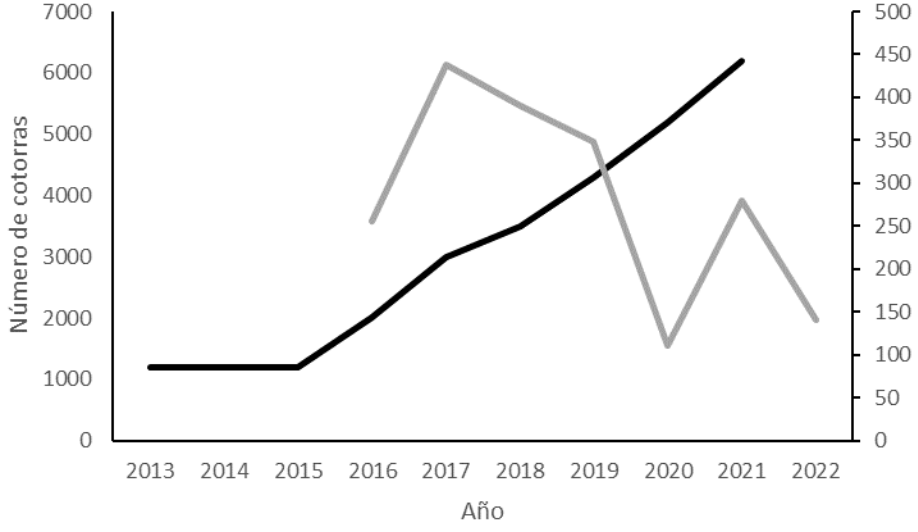


Annual Censuses and Citizen Science Data Show Rapid Population Increases and Range Expansion of Invasive Rose-Ringed and Monk Parakeets in Seville, Spain

by Dailos Hernández-Brito [1,*], Martina Carrete [2] and José L. Tella [1]



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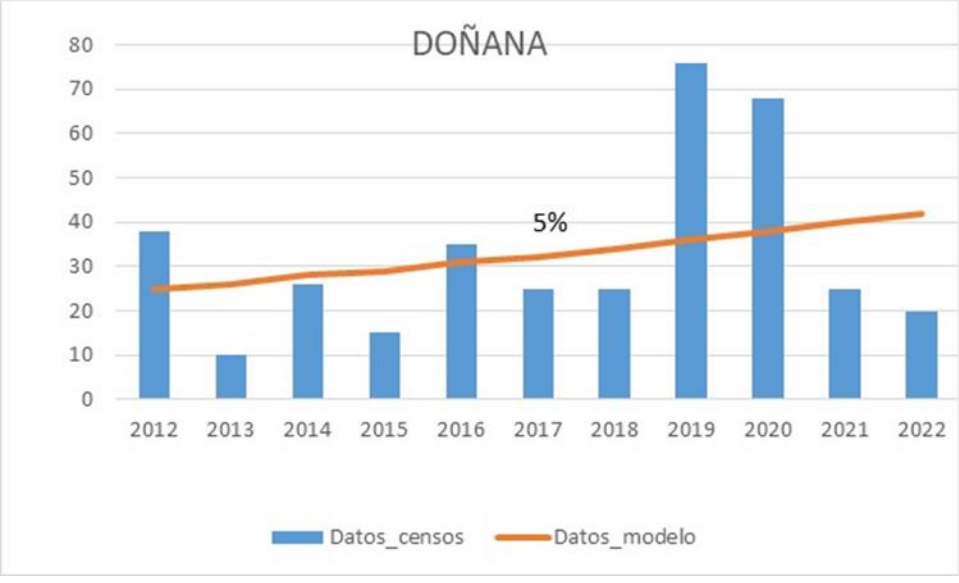
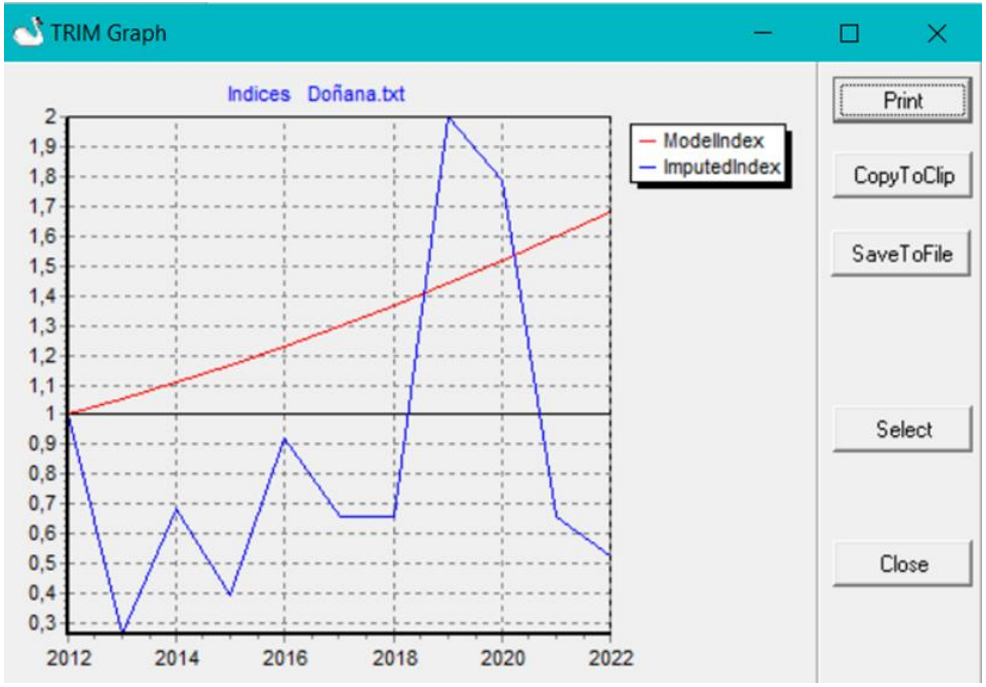
Census from 2012-2022: Doñana



Uncertain

Irregular colony

Census from 2012-2022: Doñana



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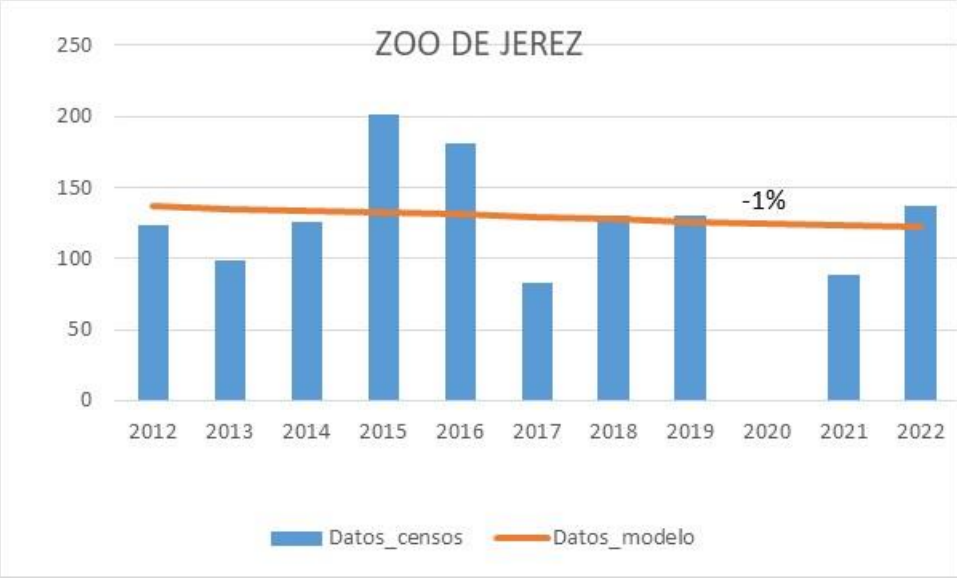
Irregular colony

Census from 2012-2022: Jerez

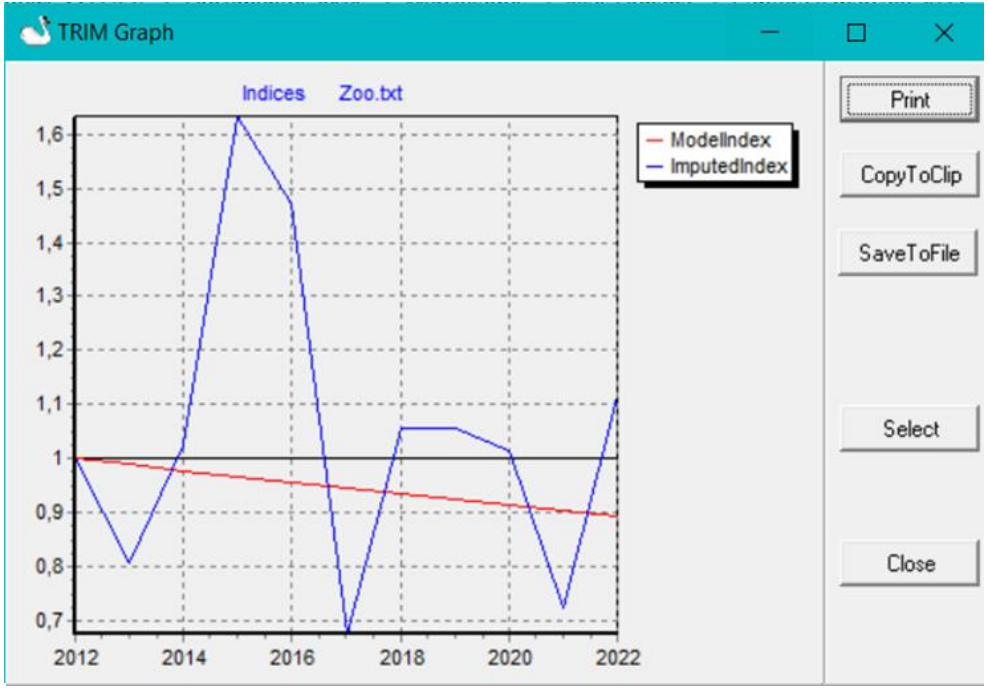


Stable

-1% anual

31% decline

Census from 2012-2022: Jerez



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Acta Chiropterologica, 21(2): 349–358, 2019
PL ISSN 1508-1109 © Museum and Institute of Zoology PAS
doi: 10.3161/15081109ACC2019.21.2.010

Bat fatalities at wind-farms in the lowland Mediterranean of southern Spain

SONIA SÁNCHEZ-NAVARRO[1], JENS RYDELL[2], and CARLOS IBÁÑEZ[1]

[1]*Department of Evolutionary Ecology, Estación Biológica de Doñana (CSIC), Av. Américo Vespucio 26, 41092 Sevilla, Spain*
[2]*Department of Biology, Lund University, S-223 62 Lund, Sweden*
[3]*Corresponding author: E-mail: sonia.sanchez@ebd.csic.es*

Species	Bat fatalities 2005–2016
Pipistrellus kuhlii	147
P. pipistrellus/pygmaeus	1,535
Nyctalus leisleri	30
N. lasiopterus	47

306-327
N. lasiopterus
dead

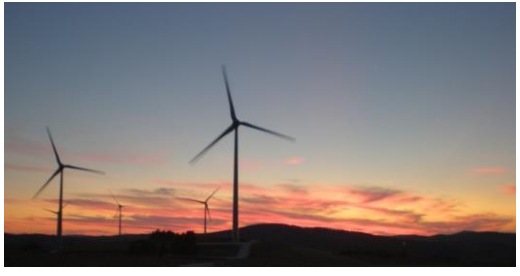

Acta Chiropterologica

HIGH BAT FATALITY RATES ESTIMATED AT WIND FARMS IN SOUTHERN SPAIN

Sonia Sánchez-Navarro[1*], Jens Rydell[2], David Gálvez-Ruiz[3] and Carlos Ibáñez[1]

$$FR_i = \frac{CFZ_i}{SESR_i}$$

700- 791
N. lasiopterus
dead



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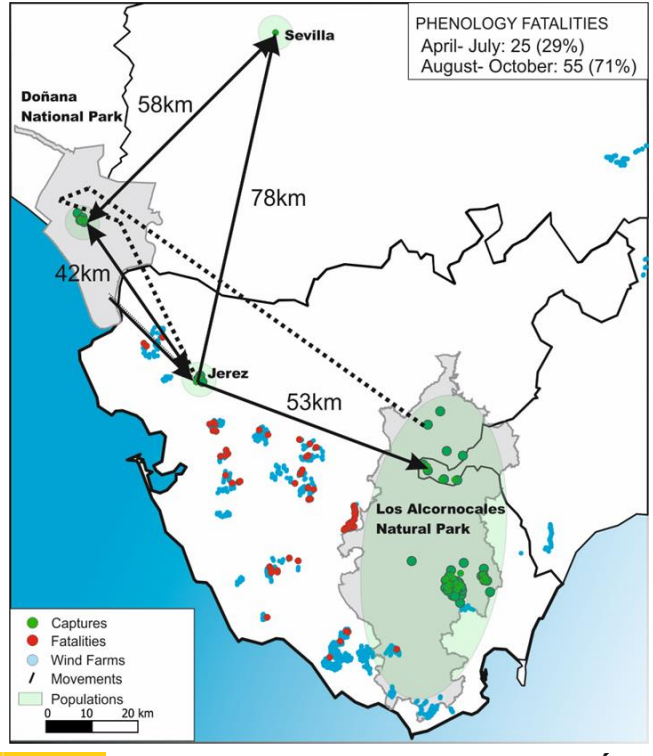
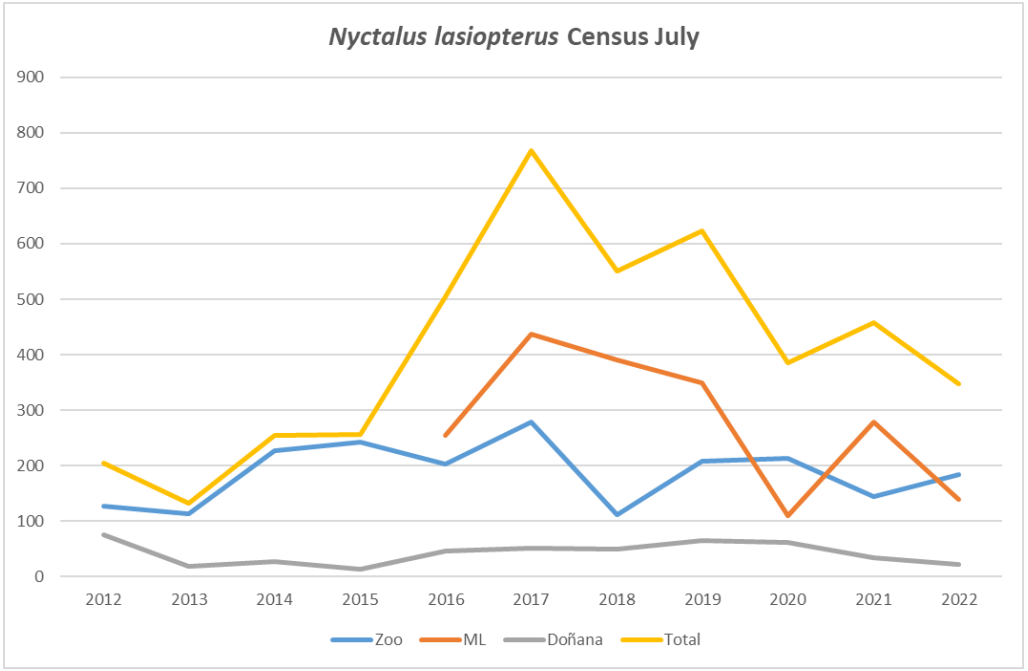
Census from 2012-2022: Jerez



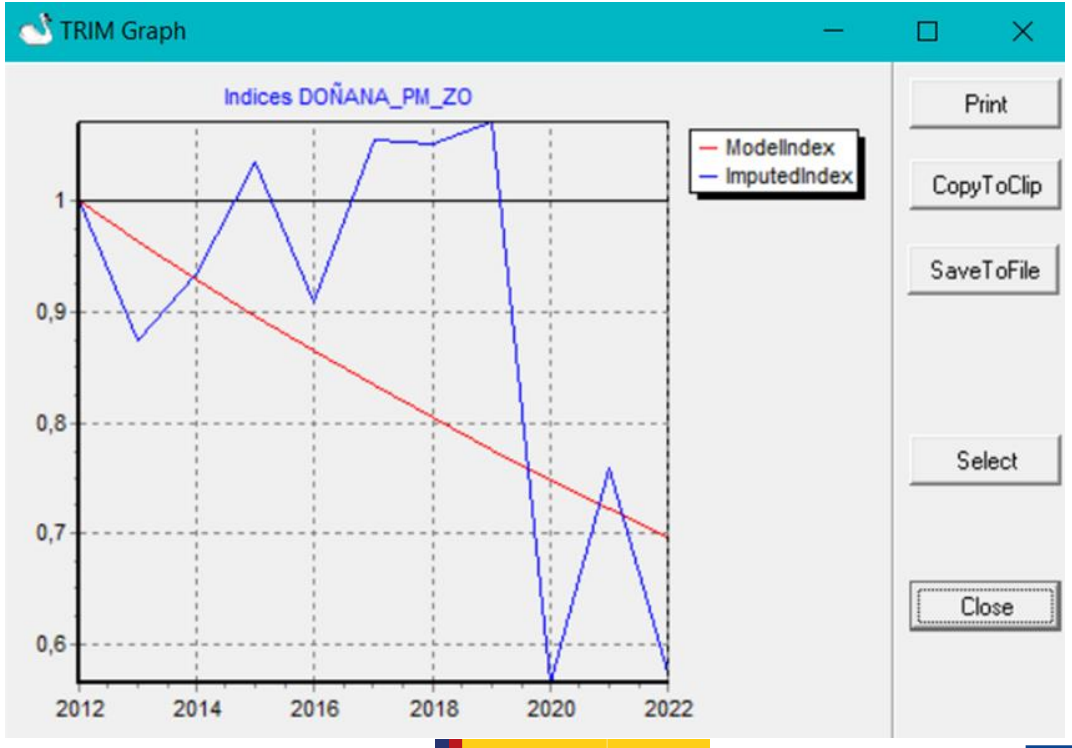
Global Census from 2012-2022



Moderate decline (p<0.01)

-4% anual

Global Census from 2012-2022



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Thank you! | www.lifewatch.eu/bees-2023