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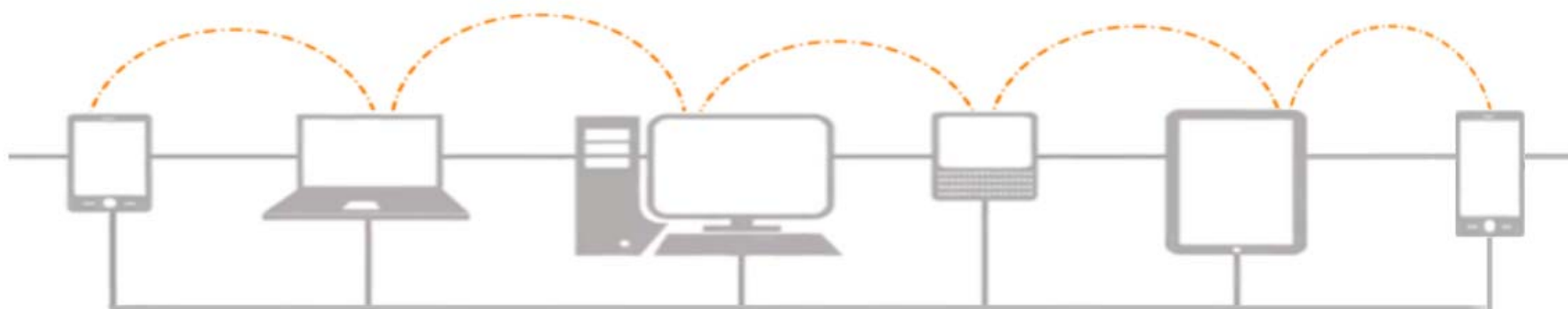
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The screenshot displays the EndNote 20 desktop application interface. The left sidebar shows the 'All References' group with 190 items. The main pane lists references with columns for Author, Year, Title, Journal, Last Updated, Reference Type, and Rating. The right pane shows a detailed view of a reference titled 'Evaluating the Effectiveness of an Ultrasonic Acoustic Deterrent for Reducing Bat Fatalities at Wind Turbines' by Arnett, E. B., Hein, C. D., Schirmacher, M. R., Huso, M. M., and Szewczak, J. M. (2013).

Author	Year	Title	Journal	Last Updated	Reference Type	Rating
	2009	Leaf-nosed bat	Encyclopædia...	21/08/2019	Encyclopedia	★ ★
	2020	Mysterious infections in China: Nov...	Deutsche ...	27/02/2021	Journal Article	
Aguilera-Alcala, N...	2020	Role of scavengers in providing non...	Ecological L...	25/02/2021	Journal Article	★ ★ ★
Aizpurua, O.; Albe...	2016	Fishing Technique of Long-Fingere...	PLoS One	25/02/2021	Journal Article	
Allen, Glover M.	2004	Bats: biology, behavior, and folklore		21/08/2019	Book	
Arnett, E. B.; Hein, C...	2013	Evaluating the Effectiveness of an Ultr...	PLoS One	18/09/2020	Journal Article	• • •
Avila-Flores, R; Me...	2004	Ecological, taxonomic, and physiologi...	Journal of ...	25/02/2021	Journal Article	
Bat Conservation In...	2008	Bat Conservation International		21/08/2019	Web Page	
Binfield, Peter	2008	At PLoS ONE we're batty about bats	PLoS: Public...	21/08/2019	Blog	
Bird, C. D.; Emery, ...	2009	Insightful problem solving and creativ...	Proceeding...	16/09/2020	Journal Article	★ ★
Blanco, G.; Cueva...	2019	A shot in the dark: Sport hunting o...	Journal for...	27/02/2021	Journal Article	
Brinklov, S.; Kalko, ...	2009	Intense echolocation calls from two '...	Journal of E...	16/09/2020	Journal Article	
Brucks, D.; von Ba...	2020	Parrots Voluntarily Help Each Other...	Curr Biol	18/09/2020	Journal Article	
Bundell, S.	2020	The parrots that understand proba...	Nature	18/09/2020	Journal Article	
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Chiu, C.; Yian, W.; M...	2008	Ebging in silence: Echolocating bats ca...	Proceeding...	16/09/2020	Journal Article	

Arnett, 2013 #2468 Summary Edit PDF

pone.0065794.pdf + Attach file

Evaluating the Effectiveness of an Ultrasonic Acoustic Deterrent for Reducing Bat Fatalities at Wind Turbines

E. B. Arnett, C. D. Hein, M. R. Schirmacher, M. M. Huso and J. M. Szewczak

PLoS One 2013 Vol. 8 Issue 6 Pages e65794

Accession Number: 23840369 PMCID: PMC3686786 DOI: 10.1371/journal.pone.0065794

Large numbers of bats are killed by wind turbines worldwide and minimizing fatalities is critically important to bat conservation and acceptance of wind energy development. We implemented a 2-year study testing the effectiveness of an ultrasonic acoustic deterrent for reducing bat fatalities at a wind energy facility in Pennsylvania. We randomly selected control and treatment turbines that were searched daily in summer and fall 2009 and 2010. Estimates of fatality, corrected for field biases, were compared between treatment and control turbines. In 2009, we estimated 21-51% fewer bats were killed per treatment turbine than per control turbine. In 2010, we determined an approximate 9% inherent difference between treatment and control turbines and when factored into our analysis, variation increased and between 2% more and 64% fewer bats were killed per treatment turbine relative to control turbines. We estimated twice as many hoary bats were killed per control turbine than treatment turbine, and nearly twice as many silver-haired bats in 2009. In 2010, although we estimated nearly twice as many hoary bats and nearly 4 times as many silver-haired bats killed per control turbine than at treatment turbines during the treatment period, these only represented an

APA 6th (IZU) Insert Copy

Arnett, E. B., Hein, C. D., Schirmacher, M. R., Huso, M. M. ve Szewczak, J. M. (2013). Evaluating the Effectiveness of an Ultrasonic Acoustic Deterrent for Reducing Bat Fatalities at Wind Turbines. *PLoS ONE*, 8(6), e65794. doi:10.1371/journal.pone.0065794

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partial breast irradiation (2)
partial breast irradiation (2)
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Author	Year	Title
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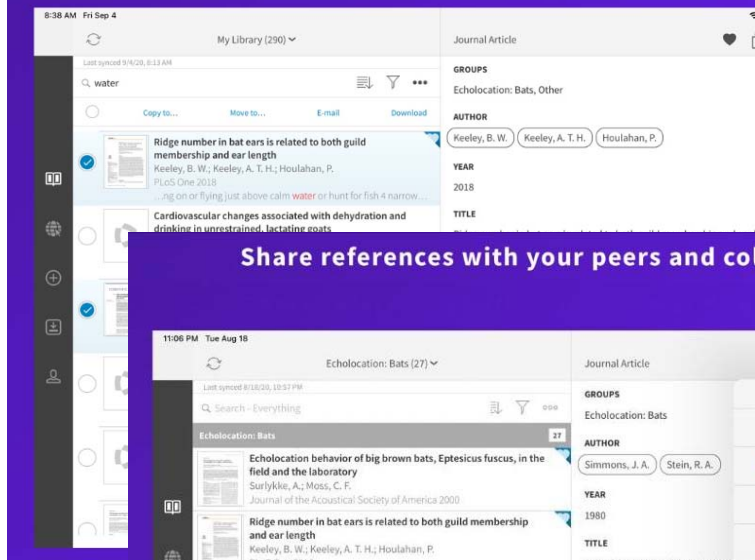
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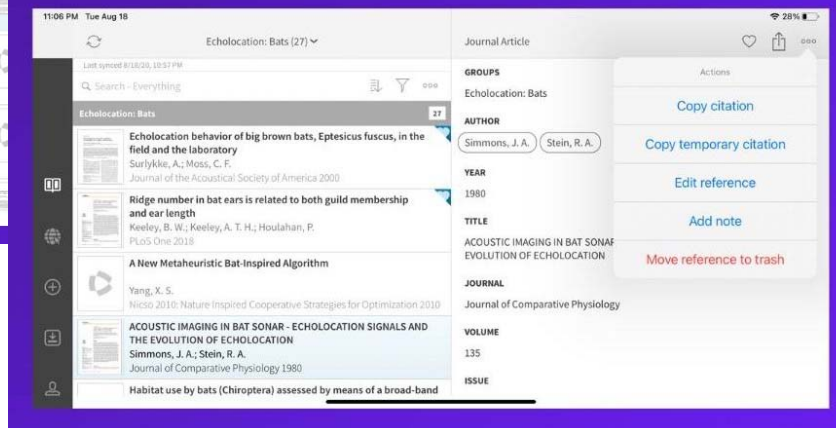
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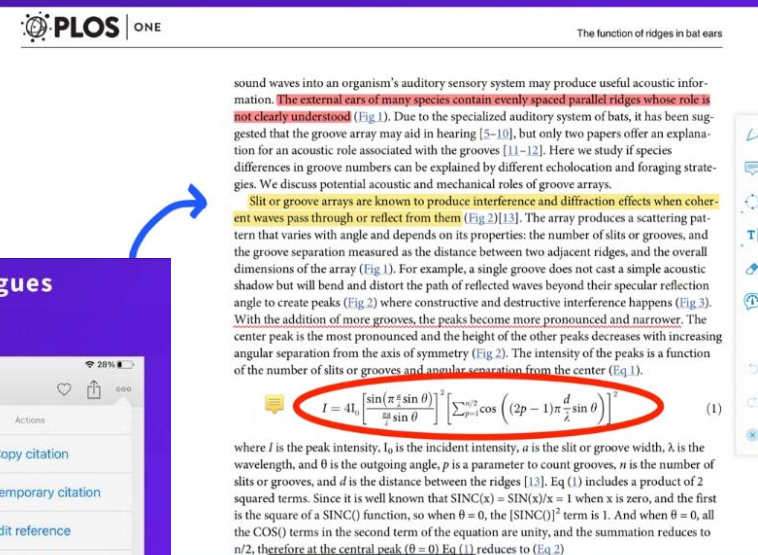
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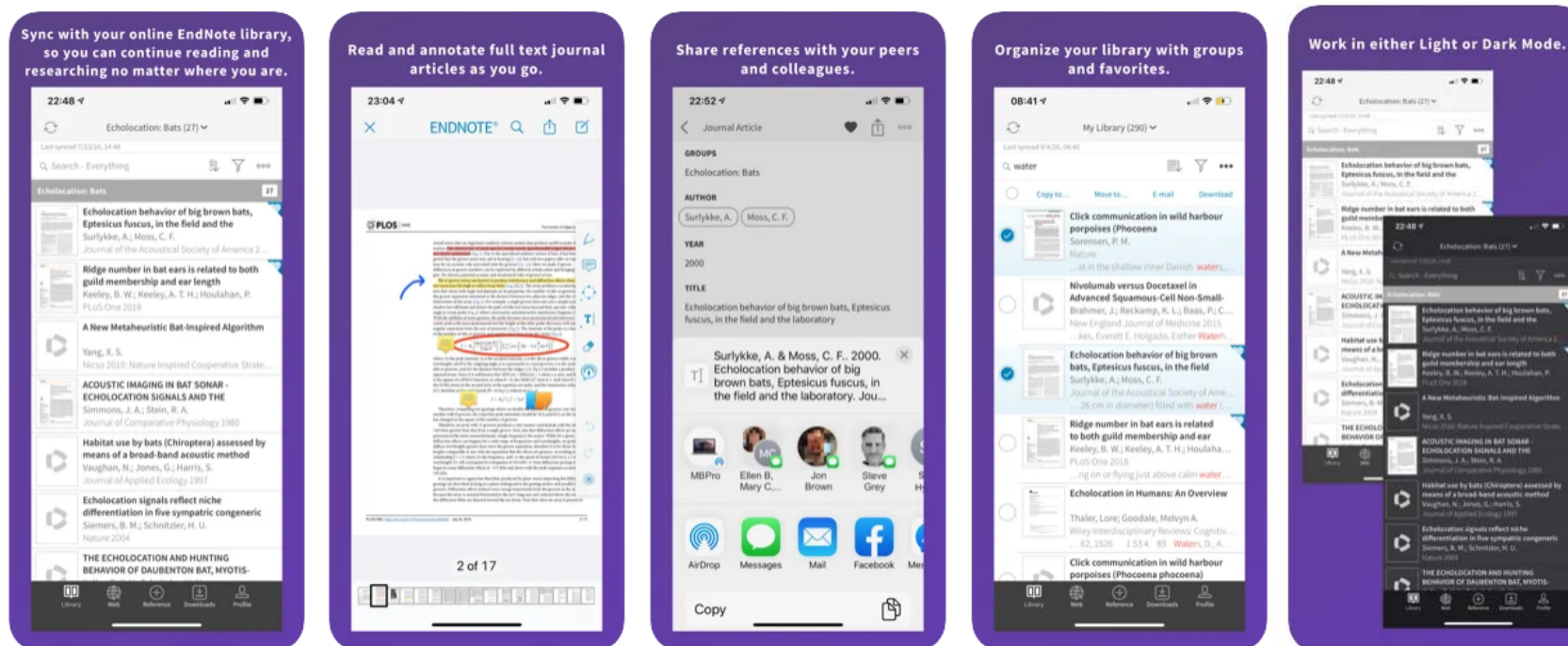


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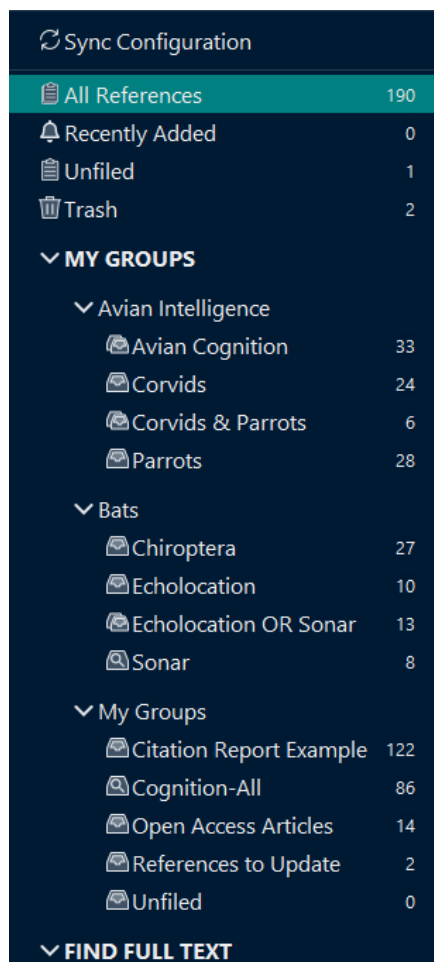
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Recently Added	0
Unfiled	1
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Corvids	24
Corvids & Parrots	6
Parrots	28
Bats	
Chiroptera	27
Echolocation	10
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My Groups	
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	Author	Year	Title	Journal	Last Updated	Reference Type
<input type="checkbox"/>	Lansberg, P. J.; Tu...	2000	[Higher prevalence of familial hype...	Ned Tijdsch...	30/09/2021	Journal Article
<input checked="" type="checkbox"/>	Tuzgol, S.; Bijvoet...	1994	Apolipoprotein CII-Padova (Tyr37-->stop)	J Med Genet	30/09/2021	Journal Article
<input type="checkbox"/>	Bijvoet, S. M.; Bru...	1994	Homozygosity for a mutation in th...	Hum Genet	30/09/2021	Journal Article
<input type="checkbox"/>	Bruin, T.; Tuzgol, ...	1994	A compound heterozygote for lipo...	J Lipid Res	30/09/2021	Journal Article
<input type="checkbox"/>	Bruin, T.; Tuzgol, ...	1993	Recurrent pancreatitis and chylomi...	J Lipid Res	30/09/2021	Journal Article
<input type="checkbox"/>	Ma, Y. H.; Bruin, T...	1992	Two naturally occurring mutations ...	J Biol Chem	30/09/2021	Journal Article

The right pane shows the details of the selected article: 'Apolipoprotein CII-Padova (Tyr37-->stop) as a cause of chylomicronaemia in an Italian kindred from Siciliana' by S. Tuzgol, S. M. Bijvoet, T. Bruin, J. J. Kastelein and M. R. Hayden. It includes the journal name, volume, issue, pages, and a full-text preview.

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EndNote 20 - Sample_Library_20.enl
File Edit References Groups Library Tools Window Help

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Simple search Search options Search

All References
190 References

Author Year Title Journal Last Updated Reference Type

Blanco, G.; Cueva... 2019 A shot in the dark: Sport hunting o... Journal for... 27/02/2021 Journal Article

Arnett, E. B.; Hein, C... 2013 Evaluating the Effectiveness of an Ultr... PLoS One 18/09/2020 Journal Article

Gorresen, P. M.; B... 2018 Multi-state occupancy models of fo... PLoS One 27/02/2021 Journal Article

Zorina, Z. A.; Oboz... 2011 New Data on the Brain and Cognitive ... Zoologich... 16/09/2020 Journal Article

Zorina, Z. A. 2005 Animal intelligence: Laboratory experi... Zoologich... 16/09/2020 Journal Article

Yovel, Y.; Franz, M. ... 2008 Plant classification from bat-like echo... Plos Compu... 16/09/2020 Journal Article

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Tiunov, M. P. 2016 Changes in the fauna of bats in the ... Quaternar... 18/09/2020 Journal Article

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PLOS ONE

Evaluating the Effectiveness of an Ultrasonic Acoustic Deterrent for Reducing Bat Fatalities at Wind Turbines

Edward B. Arnett^{1,2*}, Cris D. Hein¹, Michael J. B. Arnett¹, David L. Russell¹, David L. Russell¹

1 Bat Conservation International, Austin, Texas, United States of America, 2 Department of Biological Sciences, University of Texas at Austin, Austin, Texas, United States of America

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Abstract

Large numbers of bats are killed by wind turbines, and the conservation and acceptance of wind energy depends on the effectiveness of ultrasonic acoustic deterrents for reducing bat fatalities. Control and treatment turbines that were searched for field biases, were compared between treatment and control turbines, and we found that treatment turbines were 46% more effective than control turbines, and 46% fewer bats were killed per treatment turbine than per control turbine. However, although we estimated nearly twice as many bat fatalities at treatment turbines during the 14 fatality relative to the pre-treatment period for treatment turbines when accounting for treatment effectiveness between treatment and control turbines, the effectiveness of ultrasonic acoustic deterrents may be limited by distance and area ultrasonic sound is broadcast, in part due to rapid attenuation in thermal conditions. We caution that an operational deterrent device is not yet available and further modifications and experimentation are needed. Future efforts must also evaluate cost-effectiveness of deterrents in relation to curtailment strategies to allow a cost-benefit analysis for mitigating bat fatalities.

Challen Arnett EB, Hein CD, Schenck MR, Russell MB, Russell DL (2013) Evaluating the Effectiveness of an Ultrasonic Acoustic Deterrent for Reducing Bat Fatalities at Wind Turbines. PLoS ONE 8(9): e75794. doi:10.1371/journal.pone.0065794

Editor: David L. Russell, University of Texas at Austin, UNITED STATES OF AMERICA

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Competing Interests: The authors have declared that no competing interests exist.

* E-mail: earnett@batcons.org

Current address: Theodore Roosevelt Conservation Partnership, Loveland, Colorado, United States of America

Introduction

As wind energy production has steadily increased worldwide, bat fatalities have been reported at wind facilities worldwide [1,2,3,4] in a wide range of landscapes. A recent meta-analysis reported that approximately 500,000 to more than 1,200,000 bats have been estimated to have been killed from 2000–2011 in the U.S. and Canada [5]. Given these fatality rates, understanding growth of the wind industry [6], and unreported and known population declines in many species of bats [7,8,9], it is imperative to develop and implement solutions to reduce future bat fatalities at wind facilities.

Prior studies have demonstrated that a substantial portion of bat fatalities consistently occur during relatively low-wind conditions over a relatively short period of time during the summer- fall migration period [2,4]. Curtailment of turbine operations under these conditions and during this period has been proposed as a possible means of reducing impacts to bats [12,10]. Indeed, recent studies in Canada [11] and the U.S. [12] indicate that increasing turbine "curtail speed" (i.e., wind speed at which wind-generated electricity enters the power grid from the manufacturer's speed

usually 3.5–4.0 m/s for modern turbines) to between 5.0 and 6.5 m/s resulted in at least a 50% reduction in bat fatalities (and as high as 85%) compared to normally operating turbines [12]. While curtailment of turbine operations can be factored into the economics and financing and power purchase agreements of new projects, altering turbine operations even on a partial, limited-term basis potentially poses operational and financial difficulties for existing projects, so there is considerable interest in developing other solutions to reduce bat fatalities that do not involve turbine shutdowns. Also, changing turbine curtail speed may not be effective in other regions that experience bat fatalities although this strategy may ultimately prove sufficiently feasible and economical for reducing bat fatalities. Thus, research on alternative mitigation strategies and their associated costs are warranted.

Studies in Scotland suggest that bat activity may be deterred by electromagnetic signals from small, portable radar units [13]. This study reported that bat activity and foraging effort per unit time were significantly reduced during experimental trials when their radar antenna was fixed to produce a unidirectional signal that maintained exposure of foraging bats to their radar beam. The effectiveness of radar as a potential deterrent has not been tested at

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The screenshot displays the EndNote software interface. On the left, a sidebar shows a list of references under the heading 'All References' (190 References). The selected reference is by Gorresen, P. M., titled 'Multi-state occupancy models of foraging habitat use by the Hawaiian hoary bat (Lasiurus cinereus semotus)'. The main panel shows the details of this reference, including the title, authors (P. M. Gorresen, K. W. Brinck, M. A. DeLisle, K. Montoya-Aiona, C. A. Pinzari and F. J. Bonaccorso), journal (PLOS One 2018 Vol. 13 Issue 10 Pages e0205150), and accession number (30379835 PMCID: PMC6209161 DOI: 10.1371/journal.pone.0205150). A list of attachments is shown, including 'pone.0205150.pdf', 'mathc.txt', 'giris.docx', 'tablolar.xlsx', 'sunum.pptx', 'ses.mp3', 'ameliyat.mp4', and 'fotolar.jpg'. A purple callout box with the text 'Organize and manage vast collections' is overlaid on the attachments list. Below the attachments, a detailed abstract of the article is visible. Another purple callout box with the text 'EndNote becomes the hub of your research' is overlaid on the abstract. The bottom right corner features the ResearchSoftware.com logo and the text 'PREFERRED DISTRIBUTOR PARTNER OF Clarivate Analytics'.

All References

Author Contains + X Gorresen, 2018 #2469 Summary Edit

And Year

And Title

All References
190 References

Author

Fraser, O. N.; Bugnya

Fujioka, E.; Aihara, I.

Funk, M. S.

Gorresen, P. M.; Brinck, K. W.

Goto, Kazuhiro; Watanabe, K.

Greenhall, Arthur M.

Griebel, U.; Peppert, D.

Grothe, B.; Park, T. J.

Hagino, T.; Hiriyu, S.

Multi-state occupancy models of foraging habitat use by the Hawaiian hoary bat (*Lasiurus cinereus semotus*)

P. M. Gorresen, K. W. Brinck, M. A. DeLisle, K. Montoya-Aiona, C. A. Pinzari and F. J. Bonaccorso

PLOS One 2018 Vol. 13 Issue 10 Pages e0205150

Accession Number: 30379835 PMCID: PMC6209161 DOI: 10.1371/journal.pone.0205150

Multi-state occupancy modeling can often improve assessments of habitat use and site quality when animal activity or behavior data are available. We examine the use of the approach for evaluating foraging habitat suitability of the endangered Hawaiian hoary bat (*Lasiurus cinereus semotus*) from classifications of site occupancy based on flight activity levels and feeding behavior. In addition, we used data from separate visual and auditory sources, namely thermal videography and acoustic (echolocation) detectors, jointly deployed at sample sites to compare the effectiveness of each method in the context of occupancy modeling. Video-derived observations demonstrated higher and more accurate estimates of the prevalence of high bat flight activity and feeding events than acoustic sampling methods. Elevated levels of acoustic activity by Hawaiian hoary bats were found to be related primarily to beetle biomass in this study. The approach may have a variety of applications in bat research, including inference about species-resource relationships, habitat quality and the extent to which species intensively use areas for activities such as foraging.

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Models of foraging habitat use by the Hawaiian hoary bat (*Lasiurus cinereus semotus*)

DeLisle, M. A., Montoya-Aiona, K., Pinzari, C. A., Bonaccorso, F. J., Gorresen, P. M., Brinck, K. W. Multi-state occupancy modeling of foraging habitat use by the Hawaiian hoary bat (*Lasiurus cinereus semotus*). PLOS ONE 13(10):e0205150. DOI: 10.1371/journal.pone.0205150

Modeling can often improve assessments of habitat use and site quality when animal activity or behavior data are available. We examine the use of the approach for evaluating foraging habitat suitability of the endangered Hawaiian hoary bat (*Lasiurus cinereus semotus*) from classifications of site occupancy based on flight activity levels and feeding behavior. In addition, we used data from separate visual and auditory sources, namely thermal videography and acoustic (echolocation) detectors, jointly deployed at sample sites to compare the effectiveness of each method in the context of occupancy modeling. Video-derived observations demonstrated higher and more accurate estimates of the prevalence of high bat flight activity and feeding events than acoustic sampling methods. Elevated levels of acoustic activity by Hawaiian hoary bats were found to be related primarily to beetle biomass in this study. The approach may have a variety of applications in bat research, including inference about species-resource relationships, habitat quality and the extent to which species intensively use areas for activities such as foraging.

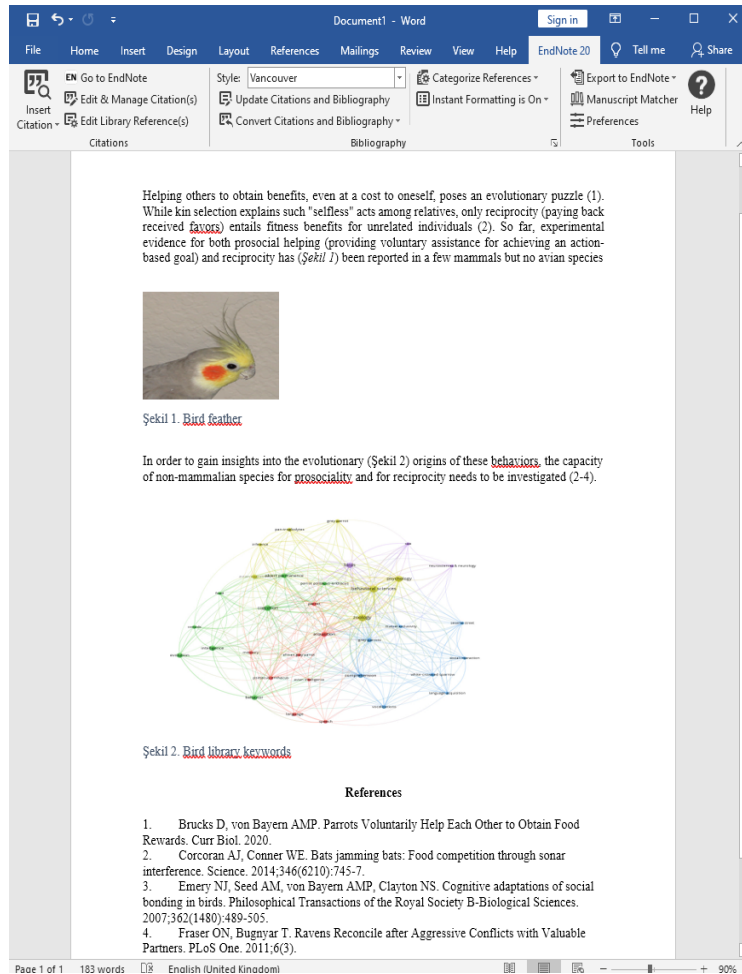
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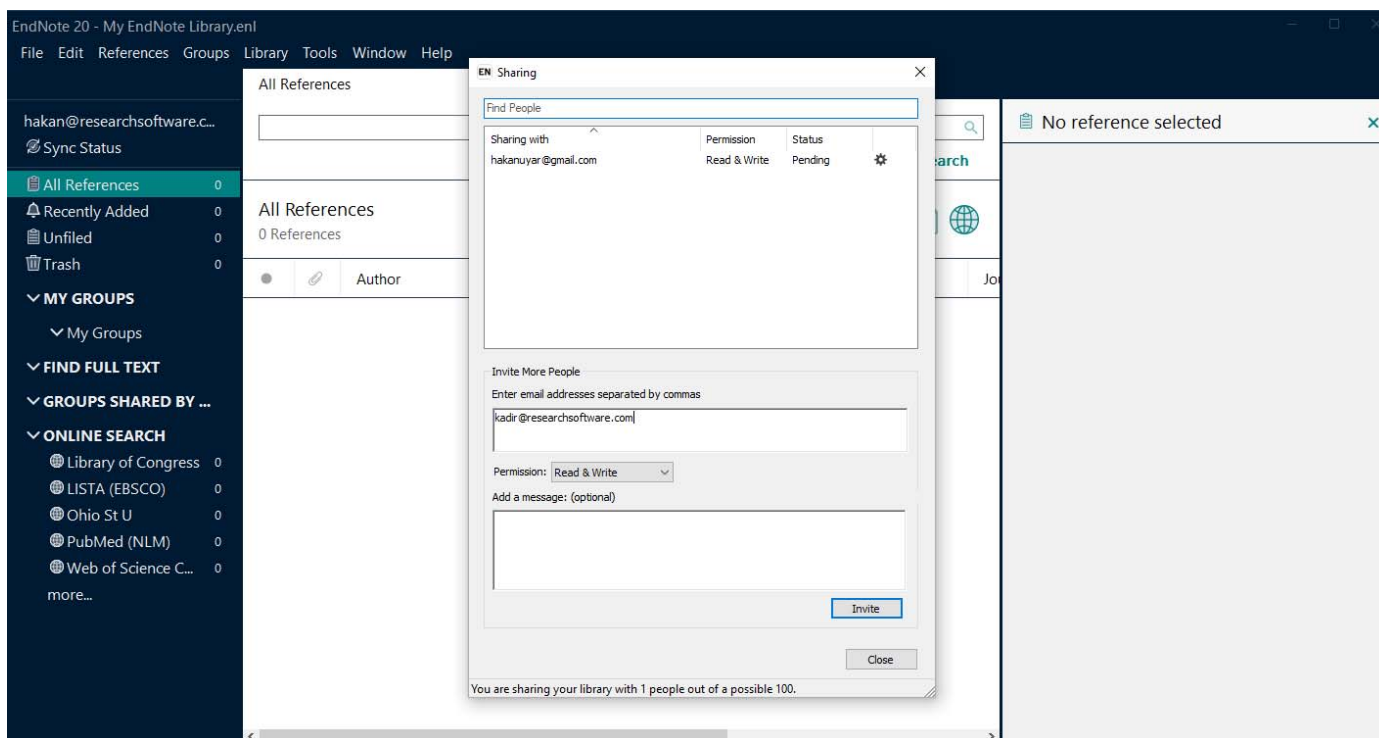
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Differential patterns of amantadine-resistance in influenza A (H3N2) and (H1N1) isolates in Toronto, Canada

*Abstract:

influenza A (H1N1) and (H3N2) isolates in the Greater Toronto Area. STUDY DESIGN: Isolates of influenza A (H1N1) and (H3N2) were strain typed using molecular methods. Pyrosequencing for point mutations in the transmembrane domain of the M2 proton channel was undertaken. Proportions of amantadine-resistant and susceptible isolates were compared using The Fisher's exact test. RESULTS: 96% of the 49 influenza A (H3N2) isolates and none of the

*required

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1.453	0.984	PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS	0

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E INFO@RESEARCHSOFTWARE.COM

T +31 (0) 88 547 1855

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