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1980–present

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International

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Changes of bat activity, species richness, diversity and community composition over an altitudinal gradient in the soutpansberg range, South Africa

Linden, Valerie M. G; Weier, Sina M; Weterings, Martijn J. A; Gaigher, Ian; Taylor, Peter J ✗; et al.

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AB

⊟ Abstract (summary) Translate

Bats are important indicator species which can help in identifying areas where conservation efforts should be concentrated and whether these areas are affected by ongoing climate change. To elucidate factors limiting and influencing the elevational distribution of bats in a recognised biodiversity hotpot, the Soutpansberg mountain range (in Vhembe Biosphere Reserve) of northern South Africa, we collected data in and around the Luvhondo Private Nature Reserve, by catching and acoustically monitoring bats over an altitudinal gradient from 900 to 1,748 m. A total of 18 different species could be recorded. Two species, namely Pipistrellus hesperidus and Chaerephon cf. ansorgei appeared to be present and dominant at all altitudes. Activity, species richness and diversity significantly decreased with increasing altitude, whereas community composition was not related to altitude and no endemics to either low or high altitude were detected. It is likely that the change of species richness and diversity over altitude is caused by other factors correlated with altitude such as vegetation type, area size, energy availability and climatic differences. Our research demonstrated that lower altitudes are richer and more diverse in bat species and since no highland endemics have been discovered, conservation efforts in the area, regarding bats, should not ignore these lower altitudes which are most susceptible to human impacts leading to habitat degradation due to over-grazing, bush encroachment, cultivation and denudation of large trees for firewood collection. © Museum and Institute of Zoology PAS.

⊟ Indexing (details) 📋 Cite

SUBT, SU

Subject	altitude; bat; biodiversity; community composition; elevation; population distribution; species conservation; species diversity; species richness
Location	Limpopo, South Africa, Soutpansberg
Identifier (keyword)	altitudinal distribution, bat activity, Limpopo Province, South Africa, Soutpansberg Mountains, species diversity, species richness, Vhembe Biosphere Reserve
Classification	73.4.7.5.5: Animal ecology; mammals; communities
Title	Changes of bat activity, species richness, diversity and community composition over an altitudinal gradient in the soutpansberg range, South Africa
Author	Linden, Valerie M. G [1] ; Weier, Sina M [1] ; Weterings, Martijn J. A [1] ; Gaigher, Ian [2] ; Taylor, Peter J [3] ; Kuipers, Henry J

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AU	Correspondence author	Taylor, P.J Department of Biodiversity Value and Change in the Vhembe Biosphere Reserve, University of Venda, Thohoyandou 0950, South Africa.
LA	Language	English
SL	Language of abstract	English
DTYPE	Document type	Article
PUB	Publication title	Acta Chiropterologica
VO	Volume	16
ISS	Issue	1
PG	Pagination	27-40
ISSN	ISSN	15081109
PSTYPE	Publication type	Journal
PB	Publisher	Museum and Institute of Zoology PAS
DOI	DOI	http://dx.doi.org/10.3161/150811014X683246
SID	Supplier identifier	PUI: 373780503
	Number of references	63
PD,YR	Publication date	Jan 1, 2014
DCRE	Date created	2014-08-28
DSTAT	Document status	New
	Source attribution	Geobase, © Publisher specific
AN	Accession number	4307154
	Document URL	http://search.proquest.com/professional/docview/1559869609?accountid=137296
	Copyright	Copyright 2014 Elsevier B.V., All rights reserved.
FAV	First available	2014-09-04
UD	Updates	2014-09-04
	Database	GEOBASE (1980 - current)

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Author affiliation	AF	af("department of biodiversity value and change" AND south africa)	Includes data when available, such as department, organization, address, city ,state, country, author email, etc.
Classification	CC	cc("73.4.7.5.5") cc("animal ecology")	Search by code or description.
CODEN	CODEN	coden(engoe)	
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Document feature	DF	df(table) df(ref)	Numbers of tables, references, figures, etc.
Document status	DSTAT	dstat(new) dstat(revised)	
Document title	TI	ti("changes of bat activity")	Includes alternate title. Does not include Publication title (PUB).
Title only	TIO	tio(forest)	Searches only the Title, not Alternate title.
Alternate title	OTI	oti("peuplement forestier")	Usually an original language title, when the English title is in Document title. Field code TI also searches the Alternate title.
Document type	DTYPE	dtype("conference paper")	
DOI	DOI	doi(ijedudev)	Digital object identifier
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Identifier (keyword)	IF	if("altitudinal distribution")	Keywords (uncontrolled vocabulary terms). Also searchable using SU. Search also contains terms from throughout the document which are calculated to be relevant.
ISBN	ISBN	isbn(9781845644680)	
ISSN	ISSN	issn(15081109)	
Issue	ISS	iss(1)	Also searchable by the Look Up Citation tool.
Language	LA	la(french)	The language in which the document was originally published.
Language of abstract	SL	sl(english)	Summary language
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Field name	Field code	Example	Description and Notes
Pagination	PG	pg(27-40)	The start page is searchable on the Look Up Citation tool.
Start page	PAGE	page(27)	First page number – displayed within Pagination. Searchable on the Look Up Citation tool.
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Publication title[1]	PUB	pub(acta chiropterologica)	Includes all Publication names, including conference titles. Journal names also searchable using JN.
Publication type	PSTYPE	pstype(books)	Preferred search uses Document type (DTYPE).
Publication year	YR	yr(2014)	Single year or a range of years may be searched. Displayed within Publication date.
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Supplier identifier	--	"pui 51050533"	Alternative reference to a record given by the information provider. Searching using SID is being developed, so search without SID if necessary.
Title	TI	ti("forest settlement")	Includes Alternate title. Does not include Publication title (PUB).
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