

Accepted Manuscript

Title: Recapture of a banded Bechstein's bat (Chiroptera, Vespertilionidae) after 16 years: An example of high swarming site fidelity

Authors: Stefania Bologna, Maria Vittoria Mazzamuto, Ambrogio Molinari, Stefania Mazzaracca, Martina Spada, Lucas A. Wauters, Damiano Preatoni, Adriano Martinoli



PII: S1616-5047(18)30027-2
DOI: <https://doi.org/10.1016/j.mambio.2018.03.001>
Reference: MAMBIO 40986

To appear in:

Received date: 30-1-2018
Accepted date: 9-3-2018

Please cite this article as: Bologna, Stefania, Mazzamuto, Maria Vittoria, Molinari, Ambrogio, Mazzaracca, Stefania, Spada, Martina, Wauters, Lucas A., Preatoni, Damiano, Martinoli, Adriano, Recapture of a banded Bechstein's bat (Chiroptera, Vespertilionidae) after 16 years: An example of high swarming site fidelity. *Mammalian Biology* <https://doi.org/10.1016/j.mambio.2018.03.001>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Recapture of a banded Bechstein's bat (Chiroptera, Vespertilionidae) after 16 years: an example of high swarming site fidelity

Running head: High site fidelity in *Myotis bechsteinii*

Stefania Bologna¹, Maria Vittoria Mazzamuto², Ambrogio Molinari¹, Stefania Mazzaracca¹,
Martina Spada^{1,2}, Lucas A. Wauters², Damiano Preatoni^{2*}, and Adriano Martinoli²

¹- Istituto Oikos, Via Crescenzago, 1, I-20134 Milano (Italy)

² - Dipartimento di Scienze Teoriche e Applicate, Università degli Studi dell'Insubria, Via J. H. Dunant 3, I-21100 Varese (Italy)

*Corresponding Author: Damiano G. Preatoni, Dipartimento di Scienze Teoriche e Applicate, Università degli Studi dell'Insubria, Via J. H. Dunant 3, I-21100 Varese (Italy), e-mail: prea@uninsubria.it

Declarations of interest: none.

ABSTRACT:

In late summer and autumn, many species of hibernating temperate bats that form mixed-sex groups visit swarming sites (typically caves or mines). Swarming behaviour is mostly prevalent among bats of the genus *Myotis* and has a crucial role in maintaining gene flow among colonies that are socially isolated and thus demographically independent. This note reports on a recapture record of a Bechstein's bat (*Myotis bechsteinii*) in proximity of the "Grotta Marelli" cave, in the Campo dei Fiori Regional Park (Varese, N Italy). We recaptured a male individual twice, i.e. 3 and 16 years after the first observation, which took place at the same site in 1999. Our observation supports previous studies suggesting that *Myotis* bats are faithful to swarming sites and documents a further record of loyalty to a swarming site, close to the maximum known lifespan (21 years) for *M. bechsteinii*

Protection and management of swarming sites such as Grotta Marelli has priority importance for bat conservation because of the occurrence and aggregation of different bat species and the role that such sites play in maintaining gene flow and hence genetic diversity.

Download English Version:

<https://daneshyari.com/en/article/8475604>

Download Persian Version:

<https://daneshyari.com/article/8475604>

[Daneshyari.com](https://daneshyari.com)