

Accepted Manuscript

Complex behaviour in complex terrain. Modelling bird migration in a high resolution wind field across mountainous terrain to simulate observed patterns



Annika Aurbach , Baptiste Schmid , Felix Liechti ,
Ndaona Chokani , Reza Abhari

PII: S0022-5193(18)30286-8
DOI: [10.1016/j.jtbi.2018.05.039](https://doi.org/10.1016/j.jtbi.2018.05.039)
Reference: YJTBI 9495

To appear in: *Journal of Theoretical Biology*

Received date: 19 January 2018
Revised date: 11 May 2018
Accepted date: 31 May 2018

Please cite this article as: Annika Aurbach , Baptiste Schmid , Felix Liechti , Ndaona Chokani , Reza Abhari , Complex behaviour in complex terrain. Modelling bird migration in a high resolution wind field across mountainous terrain to simulate observed patterns, *Journal of Theoretical Biology* (2018), doi: [10.1016/j.jtbi.2018.05.039](https://doi.org/10.1016/j.jtbi.2018.05.039)

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.

Highlights

- Topographical barriers (obstacles) can induce large detour for migratory birds
- Detours are induced by changes in wind support rather than costs for climbing
- Behavioural response leads to accumulation of bird intensity in lowlands
- Predicted intensity patterns can improve renewable energy development/operation

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/8876552>

Download Persian Version:

<https://daneshyari.com/article/8876552>

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