CORA Cork Open Research Archive
Cartlann Taighde Oscailte Chorcaí

Title	Stochastic simulations reveal few green wave surfing populations among spring migrating herbivorous waterfowl
Authors	Wang, Xin;Cao, Lei;Fox, Anthony D.;Fuller, Richard;Griffin, Larry;Mitchell, Carl;Zhao, Yunlin;Moon, Oun-Kyong;Cabot, David;Xu, Zhenggang;Batbayar, Nyambayar;Kölzsch, Andrea;van der Jeugd, Henk P.;Madsen, Jesper;Chen, Liding;Nathan, Ran
Publication date	2019-05-16
Original Citation	Wang, X., Cao, L., Fox, A.D., Fuller, R., Griffin, L., Mitchell, C., Zhao, Y., Moon, O.K., Cabot, D., Xu, Z. and Batbayar, N. (2019) 'Stochastic simulations reveal few green wave surfing populations among spring migrating herbivorous waterfowl'. Nature communications, 10(1), 2187. (12pp). doi:10.1038/s41467-019-09971-8
Type of publication	Article (peer-reviewed)
Link to publisher's version	https://www.nature.com/articles/s41467-019-09971-8 - 10.1038/s41467-019-09971-8
Rights	© The Author(s) 2019. This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons license, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons license and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this license, visit http://creativecommons.org/licenses/by/4.0/. - https://creativecommons.org/licenses/by/4.0/
Download date	2026-11-06 03:49:47

Item downloaded from	https://hdl.handle.net/10468/9110



Supplementary Data 1. Details of unpublished tracking data of spring migration, logger information and capture information. *The total sum of movement distance during the entire tracked period, including movement during migration and stopover sites. †GPS/GPS+Argos, and hereafter, means that the study used both GPS loggers and GPS+Argos loggers, which provided both GPS locations and Argos locations. However, we only included GPS locations in all analyses in this study and in this overview report table, because (1) Argos locations involved much higher error than GPS locations, (2) the GPS+Argos loggers provided much fewer Argos locations than GPS locations, and (3) the simultaneous working of the two location systems will result in duplicated timestamped locations;

Supplementary Data 2. Continuous-time correlated random walk model parameters of individual migration tracks. σ is the variability controlling factor in velocity; σ_d is the variable controlling factor in drift; β is the autocorrelation parameter; ψ is the scaling factor for the drift process;