



Australian Drosophila Ecology and Evolution Resource – curating life science research data

Ailie Smith

The University of Melbourne

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AUSTRALIAN DROSOPHILA ECOLOGY & EVOLUTION RESOURCE

Hoffmann Lab, The University of Melbourne, and other contributors

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The **Australian Drosophila Ecology and Evolution Resource (ADEER)** from the Hoffmann lab and other contributors is a nationally significant life science collection.



Climat Data



Genomic Data



Species Distribution
Data

<https://adeer.esrc.info/>

Collaboration

- Researchers from the Pest & Environmental Adaptation Research Group (PEARG), led by Professor Ary Hoffmann
- eScholarship Research Centre
- Digital Scholarship
- Research Platforms Services
- Nectar
- VicNode

Collection

- It featured 103 datasets from 39 studies, consisting of clinical, genomic and species distribution data which were collected, curated, documented, visualised and made openly available

Curation

- *ADEER* (<https://adeer.esrc.info/index.html>) was published as a web resource to provide a gateway to the datasets, providing a contextualised view of the data through systematically curated metadata descriptions to ensure that the datasets could not just be accessed, but also be understood into the future

Metadata

- ISAAR (CPF): International Standard Archival Authority Record for Corporate Bodies, Persons and Families
- RIF-CS: Registry Interchange Format - Collections and Services

Download Data



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DATASET

08 Hoffmann & Shirriffs 2002, Wing traits

From 2001

To 2001

Keywords Wing angle, Wing aspect, Wing centroid size, Wing landmarks and Wing proportion

Summary

This data file contains x and y coordinates of nine landmarks for wings and different traits related to wing shape for 19 *Drosophila serrata* populations collected in 2001. Measurements were taken for up to 10 isofemale lines per population. Wing_aspect was defined as wing length (the linear distance between landmarks 3 and 6) divided by the square root of wing area (here taken to be centroid size). Angle (outer-wing aspect) was defined as the angle between the vectors from landmarks 2 and 8 and the vector between landmarks 4 and 8. Wing proportion (outer_wing aspect) was defined as the linear distance between landmarks 2 and 4 divided by wing length (Fig. 2). Note longitudes in data are approximate.

Drosophila Species

- [*Drosophila serrata*](#)

People

- [Hoffmann, Professor Ary A.](#)
- [Shirriffs, Jennifer](#)

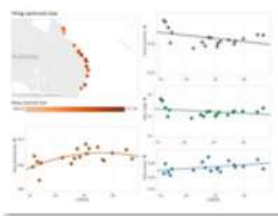
Research Groups

- [Hoffmann Lab, Professor Ary Hoffmann](#)

Publication Citations

- Hoffmann, Ary A. and Shirriffs, Jennifer, 'Geographic variation for wing shape in *Drosophila serrata*', *Evolution*, vol. 56, no. 5, 2002, pp. 1068-1073.
<http://dx.doi.org/10.1111/j.0014-3820.2002.tb01418.x>. [Details](#)

Digital Resources



Title: 8 Hoffmann & Shirriffs 2002

Type: Visualisation

../objects/images/8 Hoffmann & Shirriffs 2002.jpg



Title: 08 Hoffmann & Shirriffs 2002, Wing traits

Type: dataset

Rights:



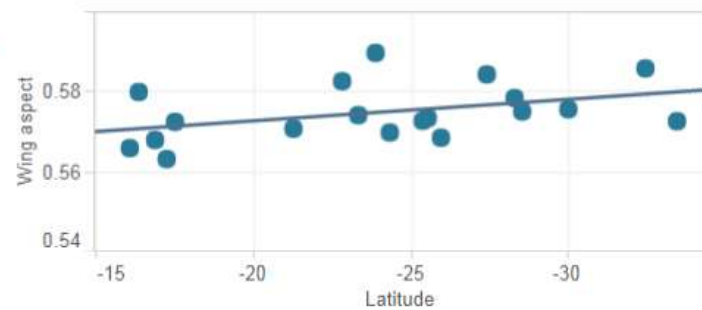
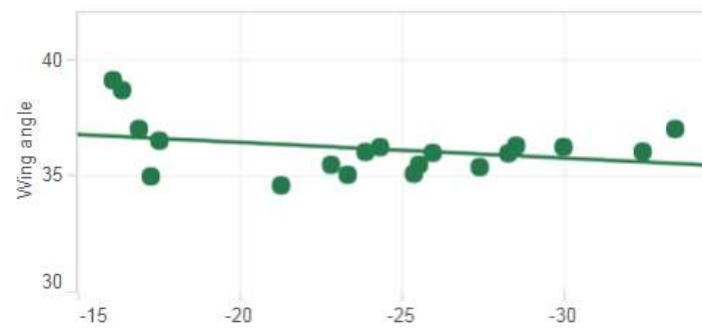
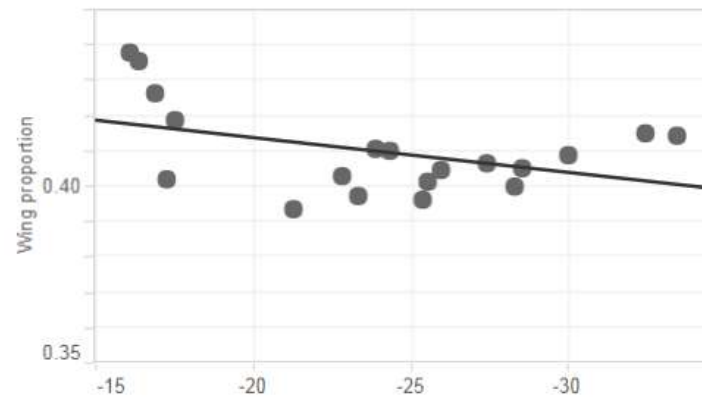
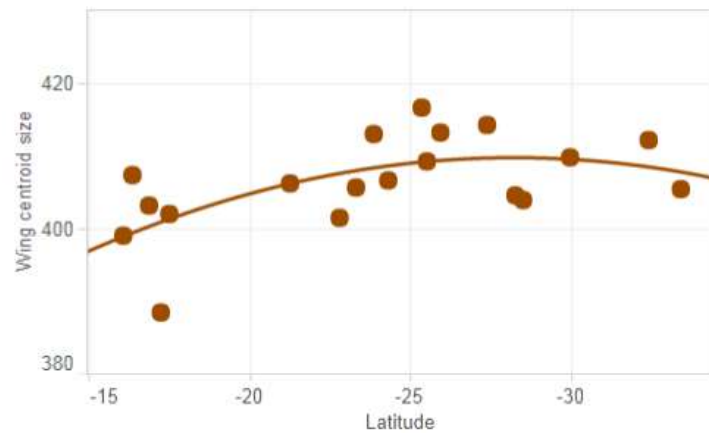
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Wing centroid size



Wing centroid size



Preservation

- The datasets were prepared and saved in digital formats that would best ensure their longevity
- Spreadsheets converted to CSV files
- Static images of online visualisations
- Metadata able to be exported in Encoded Archival Context – Corporate Bodies, Persons and Families (EAC-CPF) XML format

Future Challenges and Opportunities Identified at the end of the project

- Maintaining data and resource into the future
- Building on existing resource by adding more datasets
- Digital preservation
- Adapting to changing research data management landscape
- Funding



Thank you

ailie.smith@unimelb.edu.au

<https://adeer.esrc.info/>