

Investigating fiddler crabs

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Introduction

This is about Atlantic marsh fiddler crab (*Minuca pugnax*) study based in the Plum Island Ecosystem LTER network (Johnson et al. 2019).

Methods

Here is an in-text citation (Horst and Brun 2023)

Field sites

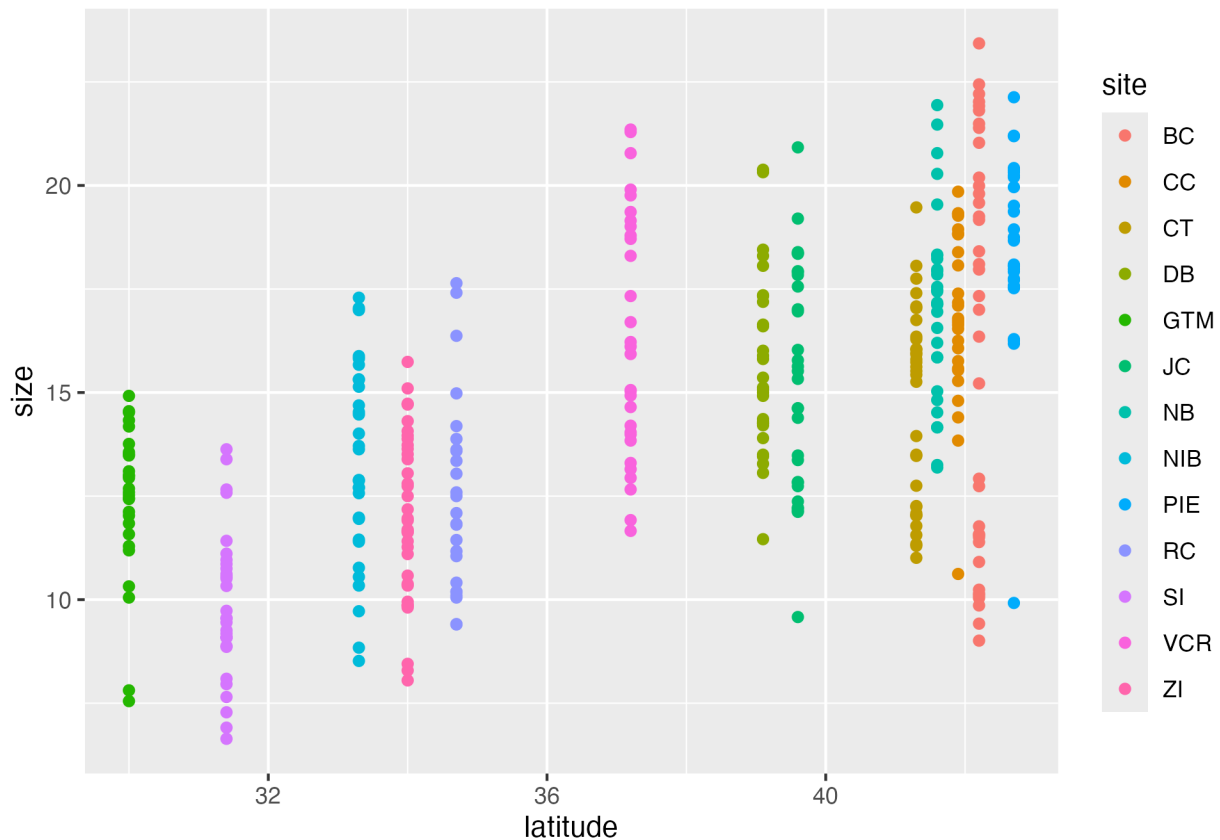
The field site was in the Atlantic coast of the United States (Johnson et al. 2019).

Data analysis

We used R Core Team (2025)'s RStudio and the multiple \$ packages for data analysis (Wickham et al. 2019, Firke 2024, Ushey and Wickham 2025).

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## [1] "/Users/sherrydu/Documents/Productivity and Reproducibility in E and E/Lecture 2/fiddler_crab_pr
```

Results



Discussion

Overall, we found that as latitude increases, the size of the crabs also increases.

References

- Firke, S. 2024. janitor: Simple tools for examining and cleaning dirty data.
- Horst, A., and J. Brun. 2023. Lterdatasampler: Educational Dataset Examples from the Long Term Ecological Research Program.
- Johnson, D. S., C. Crowley, K. Longmire, J. Nelson, B. Williams, and S. Wittingham. 2019. The fiddler crab, *Minuca Pugnax*, follows Bergmann's rule. *Ecology and Evolution* 9:14489–14497.
- R Core Team. 2025. R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria.
- Ushey, K., and H. Wickham. 2025. renv: Project environments.
- Wickham, H., M. Averick, J. Bryan, W. Chang, L. D. McGowan, R. François, G. Golemund, A. Hayes, L. Henry, J. Hester, M. Kuhn, T. L. Pedersen, E. Miller, S. M. Bache, K. Müller, J. Ooms, D. Robinson, D. P. Seidel, V. Spinu, K. Takahashi, D. Vaughan, C. Wilke, K. Woo, and H. Yutani. 2019. Welcome to the tidyverse. *Journal of Open Source Software* 4:1686.