

# Productivity and reproducibility

An example using *palmerpenguins*

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## Introduction

This short project focuses on the widely used *palmerpenguins* package (Horst et al., 2022) with the intention of making an entirely reproducible workflow. The penguins near Palmer Station, Antarctica, such as Adelie penguins (*Pygoscelis adeliae*) have been the focus of many studies (Cimino et al., 2023; Nardelli et al., 2021). Since the development of the *palmerpenguins* package, data on these penguins has been used in many coding examples. As such, it was chosen for this demonstration of reproducible research.

## Methods

## Results

## Discussion

### References

- Cimino, M. A., Conroy, J. A., [Link to external site, this link will open in a new window](#), Connors, E., Bowman, J., Corso, A., Ducklow, H., Fraser, W., Friedlaender, A., Kim, H. H., Larsen, G. D., [Link to external site, this link will open in a new window](#), Moffat, C., Nichols, R., Pallin, L., Patterson-Fraser, D., Roberts, D., Roberts, M., Steinberg, D. K., ... Stammerjohn, S. (2023). Long-term patterns in ecosystem phenology near Palmer Station, Antarctica, from the perspective of the Adélie penguin. *Ecosphere*, 14(2). <https://doi.org/10.1002/ecs2.4417>
- Horst, A. M., Hill, A. P., & Gorman, K. B. (2022). Palmer Archipelago Penguins Data in the palmerpenguins R Package - An Alternative to Anderson's Irises. *R Journal*, 14(1), 244–254. <https://doi.org/10.32614/rj-2022-020>
- Nardelli, S. C., Cimino, M. A., Conroy, J. A., Fraser, W. R., Steinberg, D. K., & Schofield, O. (2021). Krill availability in adjacent Adélie and gentoo penguin foraging regions near Palmer Station, Antarctica. *Limnology and Oceanography*, 66(6), 2234–2250. <https://doi.org/10.1002/lno.11750>