

# General Information and Literature

2023-09-29

## Some references

- For an overview of codyn, see:

Hallett LM, Jones SK, MacDonald AAA, Jones MB, Flynn DFB, Ripplinger J, Slaughter P, Gries C, Collins SL (2016) codyn: An R package of community dynamics metrics. *Methods in Ecology and Evolution*, 7(10):1146\_1151. <https://doi.org/10.1111/2041-210X.12569>

- For a description of the newer spatial methods in codyn v2.x:

Avolio ML, Carroll IT, Collins SL, Houseman GR, Hallett LM, Isbell F, Koerner SE, Komatsu KJ, Smith MD, Wilcox KR (2019) A comprehensive approach to analyzing community dynamics using rank abundance curves. *Ecosphere*, 10(10):e02881. <https://doi.org/10.1002/ecs2.2881>

- [https://rdr.io/cran/codyn/f/vignettes/Temporal\\_Diversity\\_Indices.Rmd](https://rdr.io/cran/codyn/f/vignettes/Temporal_Diversity_Indices.Rmd)

## Examples

- Finderup Nielsen, Tora, Kaj Sand\_Jensen, Maria Dornelas, and Hans Henrik Bruun. “More is less: net gain in species richness, but biotic homogenization over 140 years.” *Ecology Letters* 22, no. 10 (2019): 1650-1657. <https://onlinelibrary.wiley.com/doi/epdf/10.1111/ele.13361>
- Baranov, V., Jourdan, J., Pilotto, F., Wagner, R., & Haase, P. (2020). Complex and nonlinear climate\_driven changes in freshwater insect communities over 42 years. *Conservation Biology*, 34(5), 1241-1251. <https://conbio.onlinelibrary.wiley.com/doi/full/10.1111/cobi.13477>
- Jones, S. K., Ripplinger, J., & Collins, S. L. (2017). Species reordering, not changes in richness, drives long\_term dynamics in grassland communities. *Ecology Letters*, 20(12), 1556-1565. <https://onlinelibrary.wiley.com/doi/full/10.1111/ele.12864>
- Donoso, D. A. (2017). Tropical ant communities are in long-term equilibrium. *Ecological Indicators*, 83, 515-523. <https://www.sciencedirect.com/science/article/pii/S1470160X17301395>

## Synchrony Examples

- García-Navas, V., Sattler, T., Schmid, H., & Ozgul, A. (2021). Spatial heterogeneity in temporal dynamics of Alpine bird communities along an elevational gradient. *Journal of Biogeography*, 48(4), 886-902.
- Talas, L., Stivrins, N., Veski, S., Tedersoo, L., & Kisand, V. (2021). Sedimentary ancient DNA (sedaDNA) reveals fungal diversity and environmental drivers of community changes throughout the holocene in the present boreal Lake Lielais Svetinu (Eastern Latvia). *Microorganisms*, 9(4), 719.

- Wilcox, K. R., Tredennick, A. T., Koerner, S. E., Grman, E., Hallett, L. M., Avolio, M. L., . . . & Zhang, Y. (2017). Asynchrony among local communities stabilises ecosystem function of metacommunities. *Ecology letters*, 20(12), 1534-1545.