

Assignment 1: Paraphrase

Directions

Paraphrasing is an essential tool for scientific writing. In this assignment, you will practice writing a paraphrase for each of the following two passages. Once you finish, submit your assignment as a PDF file [here](#). This assignment is due on October 14, 2022.

Passage 1: “Carbon dioxide (CO₂) transfer from inland waters to the atmosphere, known as CO₂ evasion, is a component of the global carbon cycle. Global estimates of CO₂ evasion have been hampered, however, by the lack of a framework for estimating the inland water surface area and gas transfer velocity and by the absence of a global CO₂ database.” (Raymond et al. 2013).

Passage 2: “Via a large-scale meta-analysis of experimental enrichments, we show that phosphorus limitation is equally strong across these major habitats and that nitrogen and phosphorus limitation are equivalent within both terrestrial and freshwater systems. Furthermore, simultaneous N and P enrichment produces strongly positive synergistic responses in all three environments. Thus, contrary to some prevailing paradigms, freshwater, marine and terrestrial ecosystems are surprisingly similar in terms of N and P limitation.” (Elser et al. 2007)

References

- Elser, J.J., M.E.S. Bracken, E.E. Cleland, D.S. Gruner, W.S. Harpole, H. Hillebrand, J.T. Ngai, E.W. Seabloom, J.B. Shurin, and J.E. Smith (2007). Global analysis of nitrogen and phosphorus limitation of primary producers in freshwater, marine and terrestrial ecosystems. *Ecology Letters*, 10: 1135–1142.
- Raymond, P.A., J. Hartmann, R. Lauerwald, S. Sobek, C. McDonald, M. Hoover, D. Butman, R. Striegl, E. Mayorga, C. Humborg, P. Kortelainen, H. Dürr, M. Meybeck, P. Ciais, and P. Guth (2013). Global carbon dioxide emissions from inland waters. *Nature*, 503: 355–387.