

Review of: "Association of Franciscana (Pontoporia blainvillei) Occurrence with the Doce River Plume"

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Potential competing interests: No potential competing interests to declare.

The article Association fo Franciscana (Pontoporia blainvillei) occurrence with the Doce river plumedescribes the distribution of the species, proposing the subspecies *P. b. pukusi* due to its isolation. The estuarine/marine habitat under study received mining sediments in 2015, but it is unclear if these were still being deposited between 2018 and 2022, when the study was conducted. The paper compares with a Mann-Whitney test the presence of *P. blainveillei* inside and outside the plume as counted by drone flights. The paper discusses the bioacoustics of the species and its possible relations to the sediments found in the plume.

The paper reports percentages of sightings inside and outside the plume when the Mann-Whitney test is used for counts. It would be interesting to see a table with the counts inside and outside the plume, including dates by year; this would give us a better idea of the sample size and allow us to find trends in behaviour and distribution. The bars in the figure do show the differences between counts inside and outside the plume and report standard deviation. I don't understand why one bar has one asterisk and the other two, as only one test was done. Are we talking about a p <0.05 or <0.01 difference?

The acoustic discussion is based on what is known about marine bioacoustics, but there is no mention of whether measurements on sound transmission were taken inside and outside the plume. If this was not done, it should be mentioned to help us understand the importance of the acoustic differences inside and outside the plume.

Two papers with superscripts were missing in the References, Fraineret al. 2018 and Olivera-Ferreira 2022. Also, some other articles mentioned in the paper do not have a superscript and are not included in the references. This is disappointing.

Nevertheless, the paper Association fo Franciscana (Pontoporia blainvillei) occurrence with the Doce river plume a valuable contribution to our understanding of small cetaceans' bioacoustics and conservation challenges.

Qeios ID: GGI372 · https://doi.org/10.32388/GGI372