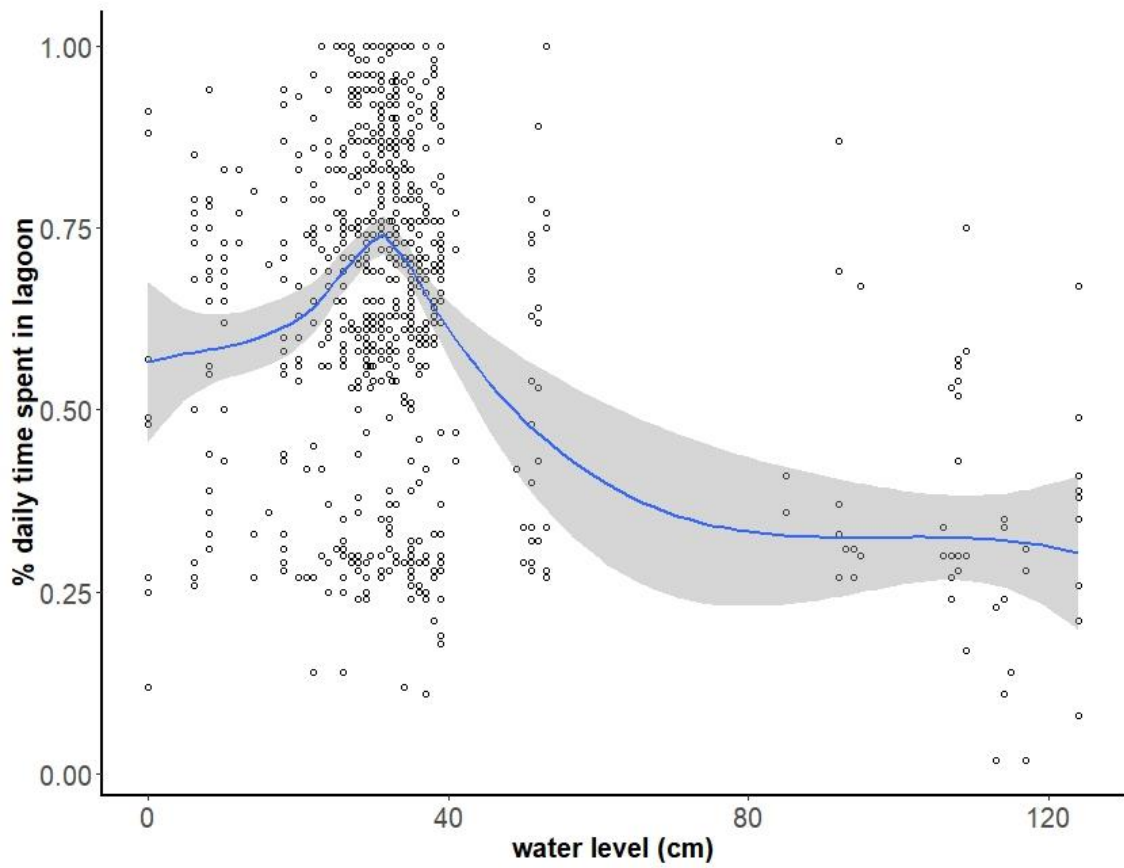


1 **Supplementary materials**

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4 **Figure S1.** Relationship between the percentage of daily time spent in Fuente de Piedra
5 and the water level in the lake. The trend line (with 95% CI) was fitted with the non-
6 parametric LOESS function using a span value of 0.75.

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15 **Figure S2.** Feathers shed by roosting gulls in Fuente de Piedra, an additional source of
16 nutrient inputs not quantified in this study. Photo by Irene Paredes (January 2018).

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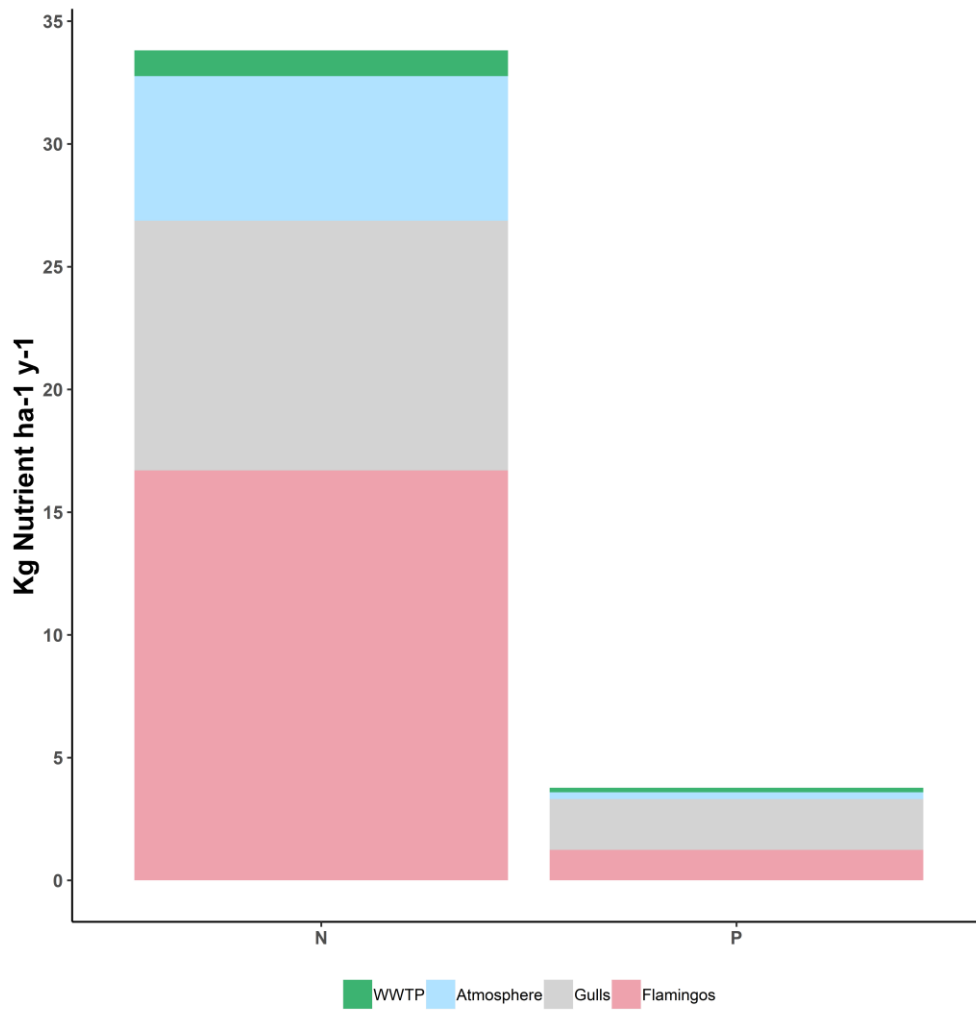
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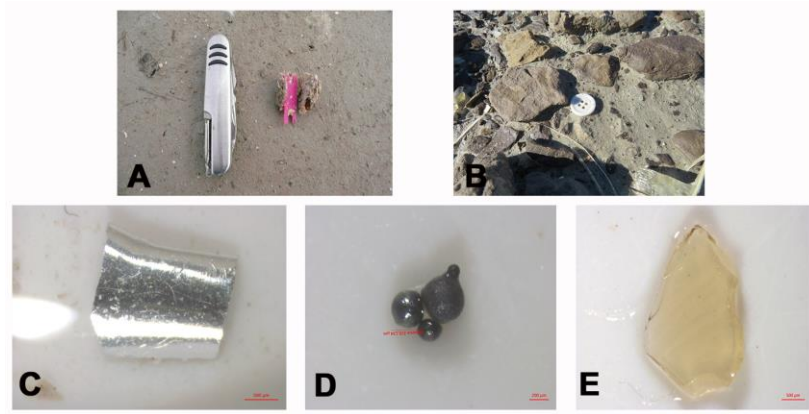
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24 **Figure S3.** Estimated relative contribution ($\text{Kg ha}^{-1} \text{y}^{-1}$) of nutrient loading of gulls
 25 compared to other sources identified from the literature (flamingos, atmospheric
 26 inputs and Waste Water Treatment Plants (WWTP)). See discussion for more details.

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31 **Figure S4.** Examples of different waste types egested in pellets by LBBG in FP, and
32 therefore imported to the lake from landfills: (A,B) different plastics, (C,E) different
33 metals and (E) glass.

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