

Text S1.

Full list of extracted papers on the ecological roles and importance of sirenians. For our literature review, we performed a total of four searches, each using a different engine (BIOSIS Previews, Google Scholar, JSTOR, Web of Science). Each search contained the scientific genus and English language common names (if not duplicative) of each of the species on which this review focused plus the general terms Sirenia* and sea cow. For example, in Web of Science our advanced search was formulated as (*Dugong* AND (*Trichechus* OR manatee) AND (*Hydrodamalis* OR Steller's) AND Sirenia* AND sea cow). From each search, we then extracted all peer-reviewed papers dealing with ecological interactions involving sirenians (i.e., their roles) and the effect sizes of those interactions (i.e., their importance). To ensure that our review was as up to date as possible at the time of publication, we performed the search process several times to capture late-breaking publications, most recently on 6-January 2022.

Allen AC, Keith EO (2015) Using the West Indian manatee (*Trichechus manatus*) as a mechanism for invasive aquatic plant management in Florida. *J Aquat Plant Manage* 53:95–104

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[doi:10.1017/S0025315417000182](https://doi.org/10.1017/S0025315417000182)

Alves MDdO, Schwamborn R, Borges JCG, Marmontel M, Costa AF, Schettini CAF, de Araújo ME (2013) Aerial survey of manatees, dolphins and sea turtles off northeastern Brazil: correlations with coastal features and human activities. *Biol Conserv* 161:91–100
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Alves-Stanley CD, Worthy GAJ, Bonde RK (2010) Feeding preferences of West Indian manatees in Florida, Belize, and Puerto Rico as indicated by stable isotope analysis. *Mar Ecol Prog Ser* 402:255–267 [doi:10.3354/meps08450](https://doi.org/10.3354/meps08450)

Ames AL, Van Vleet ES, Sackett WM (1996) The use of stable carbon isotope analysis for determining the dietary habits of the Florida manatee, *Trichechus manatus latirostris*. *Mar Mamm Sci* 12:555–563 [doi:10.1111/j.1748-7692.1996.tb00067.x](https://doi.org/10.1111/j.1748-7692.1996.tb00067.x)

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Anderson PK (1994) Dugong distribution, the seagrass *Halophila spinulosa*, and thermal environment in winter in deeper waters of eastern Shark Bay, Western Australia. *Wildl Res* 21:381–388 [doi:10.1071/WR9940381](https://doi.org/10.1071/WR9940381)

Anderson PK (1995) Competition, predation, and the evolution and extinction of Steller's sea cow, *Hydrodamalis gigas*. *Mar Mamm Sci* 11:391–394 [doi:10.1111/j.1748-7692.1995.tb00294.x](https://doi.org/10.1111/j.1748-7692.1995.tb00294.x)

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