**Supplemental Information**

**Fossil Dugongid from the Pleistocene of northern Qatar: new questions about the antiquity of sea cows in the Gulf Region**

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**Supplemental Dataset**

We provide a supplemental dataset of first and second rib measurements from fossil and extant sirenians, including abbreviations. See main text for museum collection abbreviations. All measurements in mm.

**Other fossil Dugongidae from Qatar**

LeBlanc (2009, 2015, 2017) provided the first report of fossil sirenian material from Qatar, including the description of fossil Dugongidae from the Early Miocene age Dam Formation of southwestern Qatar, and fossil sirenians from the Eocene age Dammam Formation of western Qatar. This material mostly consists of postcranial elements from occasionally associated individual skeletons with complete (or partially complete) individual elements, such as ribs and, less commonly, vertebral elements.



Some of this material, including Dam Formation dugongid ribs bones (QNM.2011.660.2ABC, modified from Kaskes and Baastians, unpublished data, above), is on display in the galleries of the National Museum of Qatar. QNM.2011.660.2ABC likely represents three anterior ribs from an Early Miocene dugongid (gen. indet.), with similarities to the Pleistocene age rib fragment QM.2021.0504, as mentioned in the main text. The full list of specimens from the Dam and Dammam formations in the collections of the National Museum of Qatar in Doha includes: QNM.2011.660.2ABC, QNM.P.2017.2005, QNM.P.2017.2006, QNM.P.2017.2007, QNM.P.2017.2008, QNM.P.2017.2009, ARC.2008.14.387, ARC.2008.14.388, and ARC.2008.14.389, QM.2021.0504.

**Gray Literature References**

LeBlanc J. 2009. A Fossil Hunting Guide to the Miocene of Qatar, Middle East: A Geological & Macro-Paleontological Investigation of the Dam Formation. 192 pages. DOI: 10.13140/RG.2.1.1228.6567 (self-published online)

LeBlanc J. 2015. A historical account of the stratigraphy of Qatar, Middle East (1816 to 2015). 1220 pages. DOI: 10.13140/RG.2.1.5165.6725 (self-published online)

LeBlanc J. 2021. Stratigraphic Lexicon: A revised guide to the Cenozoic Surface Formations of Qatar, Middle East (excluding the islands). *Biosis: Biological Systems* 2(4), 361–407.

Kaskes P, Bastiaans D. 2017. Exhibiting the Geological History of Qatar: Fieldwork and Collection Report for Gallery 1 of the National Museum of Qatar. Unpublished report, version 3. Naturalis Biodiversity Center, Leiden, Netherlands. 150 pp.