A Bibliography for the Sea of Cortez (Gulf of California)

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Vers. 1 July 2025

NOTE: This document is updated on an ongoing basis (see date stamp above)

While not complete, this list will provide a good entry into the primary (journal and book) literature. With a few notable exceptions, chapters in edited volumes are not cited when the volume itself is cited. Older (pre-2000) species-level taxonomic publications are generally not included unless they have broader biological implications, although important systematic revisions are included. Non-peer-reviewed magazines and government reports are generally not cited, unless the veracity of the data are publically verifiable or especially timely (e.g., the vaquita situation in the Northern Gulf). The Mexican scientific literature is high in non-refereed work from various agencies and universities (e.g., SEMARNAT, CONABIO, CICESE, UABC, UABCS, Instituto Politécnico Nactional) and nonprofit organizations (e.g., CEDO, Pronatura) and unless timely and of broad relevance these reports are generally not cited herein. Some journals are of lower quality and papers from those should be viewed with caution (e.g., *Frontera Norte*, any of the 470 MDPI journals such as *Remote Sensing, Fishes, Arthropoda, Biology, Birds, Biosphere, Oceans, Coasts, Water, Diversity, Ecologies, Genes, Insects,* etc.). Academic theses and unrefereed abstracts from conference proceedings generally also are not cited (although a few key ones are). Numerous key terrestrial/freshwater/botanical publications are included in this list when they are of interest to coastal investigators (e.g., the Pinacates, the Colorado River Delta, Baja California Peninsula, coastal desert streams and springs, etc) or deal with Gulf/Baja/Northwest Mexico geological and biogeographical history. Similarly, some important papers on Arizona and California geology, hydrology, etc. are included when they have direct relevance to the Gulf of California, as are some key papers from the Temperate East Pacific that treat the biology of species also occurring in the Sea of Cortez. Coverage of the Pinacate Volcanic Lava Field and its craters is fairly comprehensive. Although some key botanical and anthropological papers and books are cited when they are relevant to the Gulf of California and adjacent coastal regions, the full extent of such publications is not covered.

GULF RESEARCHERS: If you notice an important paper or book that is missing from this list, especially your own, please send it to me and I will add it to the Bibliography (rbrusca@desertmuseum.org).

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and adaptive capacity indicators were identified. The information was sent to 30 experts and a virtual workshop was held in July 2022 to select the best socioeconomic indicators. These were analyzed based on data from federal and state databases. Concluded that Baja Sur and Sinaloa had the most vulnerable communities given climate change scenarios.]

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was "significantly lower" during the 1980s than at the beginning of the 1990s, a careful reading of the results reveals the significance of the association between river flow and salinity to have a "quite low" correlation coefficient. In fact, the average salinity value during the wet period was 34.4 psu, while during the dry period it was 34.8 psu. In terms of biological productivity and the health of marine life, this difference is insignificant and only goes to show that the region was not hyposaline at any time in the study. Instead of using real-time oceanographic data from the Upper Gulf—data that are abundant in the literature through many studies—the analysis relies on satellite data that estimated salinity during the two periods. In fact, the long history of oceanographic research in the Northern Gulf is largely ignored. Papers that are cited appear "hand-picked" to support their claim, many of which have been long challenged or disproven; other papers are incorrectly cited [e.g., the authors' claim that Brusca et al. 2017 state the Upper Gulf has undergone important environmental changes since the damming of the Colorado River is incurred; in fact, that paper said just the opposite—that damming has had little or no effect on the Upper Gulf]. Rodríguez-Pérez et al. also ignore the overriding fact that *daily* tidal exchange in the Upper Gulf brings in more seawater than the Colorado River ever brought to Mexico in a full year's time, suggesting significant changes in physical oceanography due to river flow are highly unlikely if not outright impossible. They also use flow meter data from Yuma with an assumption that all that water reached the Upper Gulf, something that has been shown to be false by many studies. And their claim that the Morelos Dam is a true dam that prevents water from reaching the Colorado River Delta is also false. Morelos Dam is merely a "switching station" that diverts water destined to Mexico to various locations on the delta. The evidence suggests to me that Arreguín-Sánchez and Rodríguez-Pérez are on a long-standing "mission" to prove something that simply does not exist.)

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