This web application is designed to help users explore (1) the importance of aquaculture to human nutrition, (2) the projected impacts of climate change on the nutrient endowment of aquaculture, and (3) the site suitability for aquaculture production of different species. Data are presented at the national scale to allow users to assess vulnerability, sensitivity, and capacity in their country.

This web application contains the following three panels:

**1.**    **Aquaculture potential:**This tab allows the user to explore current aquaculture production by EEZ, as well as the projected impacts of climate change on aquaculture production. These projections allow the user to anticipate the extent to which aquaculture production will be able to fill nutritional needs under climate change.

**2.**    **Aquaculture species:** This tab allows the user to…

**3.**    **Aquaculture site explorer:** This tab…

This web application is powered by data from the following three papers:

Smith MR, Micha R, Golden CD, Mozaffarian D, Myers SS (2016) Global Expanded Nutrient Supply (GENuS) model: a new method for estimating the global dietary supply of nutrients. *PLoS One* 11(1): e0146976. <https://doi.org/10.1371/journal.pone.0146976>

Vaitla B, Collar D, Smith MR, Myers SS, Rice BL, Golden CD (2018) Predicting nutrient content of ray-finned fishes using phylogenetic information. *Nature Communications* 9(3742).<https://doi.org/10.1038/s41467-018-06199-w>

Free CM, Mangin T, García Molinos J, Ojea E, Burden M, Costello C, Gaines SD (2020) Realistic fisheries management reforms could mitigate the impacts of climate change in most countries. *PLoS One* 15(3): e0224347. <https://doi.org/10.1371/journal.pone.0224347>

Please cite the original papers when referring to their data and in any other appropriate circumstance. When referencing the web application, we recommend the following citation:

Millage KM et al. (2020) Aquacast: climate change and aquaculture web explorer. Available online at:<https://emlab-ucsb.shinyapps.io/aquacast/>

The development of this web application was funded by the Environmental Defense Fund (EDF). All data and code for the application is available on GitHub [here](https://github.com/emlab-ucsb/aquacast).