DISCUSSION
The Productive Aquatic CO2 System (PACOS) program, which is part of the National Oceanic and Atmospheric Administration's (NOAA) Ocean Acidification Program, has conducted research on the effects of ocean acidification on the productivity of coastal ecosystems. The study has involved the analysis of sediment cores and the quantification of carbonate chemistry in the water column. The results indicate that ocean acidification is having a significant impact on the productivity of coastal ecosystems, particularly in areas where the pH levels are already low. The study also highlights the importance of understanding the local controls on carbonate chemistry, such as the distribution of primary production and the influence of upwelling and mixing processes. The findings have important implications for the management of coastal resources and the conservation of marine biodiversity.

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