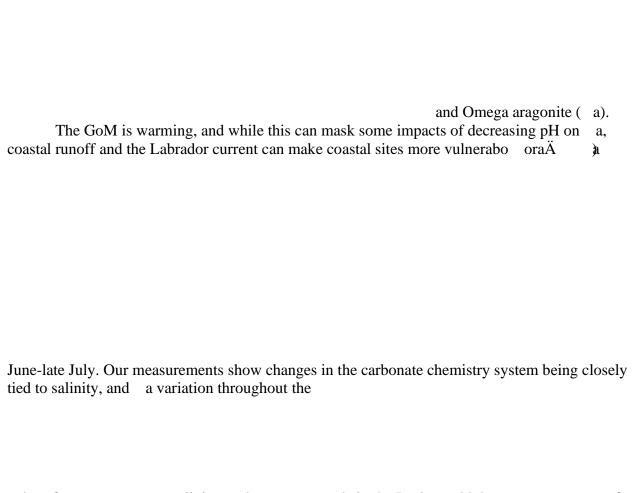
Temporal Variability of Carbonate Chemistry and Ocean Acidification in Coastal Maine Eli Franklin, Class of 2025

Given the Gulf of Maine's (GoM) increasing annual production of shellfish, expected to	
surpass \$20M in annual revenue in 2028, localized research on ocean conditions known to impact	ct
shellfish growth is of interest to coastal Maine communities. This summer, I studied the carbona	te



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values from temperature, salinity, and oxygen records in the Basin could then serve as a proxy for the carbonate chemistry of other bays, basins, and coastal conditions in Maine and determine the relevance of offshore data for coastal stakeholders. Further, this project provides a baseline for future studies in the Basin and will provide a tool for continued collaboration among scientists and oyster farmers to estimate complex carbonate chemistry parameters. This summer has provided