Climate Change Stressor	Potential Impact on Estuarine System of Wetlands
Sea-level rise	Migration of estuarine salinity gradients
	Inundation and erosion of coastal marshes, beaches, mudflats, and other wetlands (leading to loss of habitat for many species) Altered tidal range and tidal asymmetry (leading to tidal mixing and changes in sediment transport)
Increases in water temperatures	Shift in species composition (e.g., mangroves and cypress swamps moving northward) Reductions in water quality due to increased growth of nuisance algae and to lower oxygen levels
Altered timing of seasonal changes	Increased/decreased precipitation (depending on region) affecting water balance/availability Changes in timing of spring flow of pollutants
Increases in air temperatures	Decreased water availability and drought in some regions
Changes in precipitation	Altered winter-spring discharge rates, leading to more pronounced flooding (especially if high flow coincides with heavy precipitation events) Reduced water quality due to changes in freshwater runoff Changes in precipitation affecting pollutant loading levels in water bodies Altered salinity gradient from increase/decrease of streamflow
Elevated atmospheric CO ₂	Increased algal blooms