

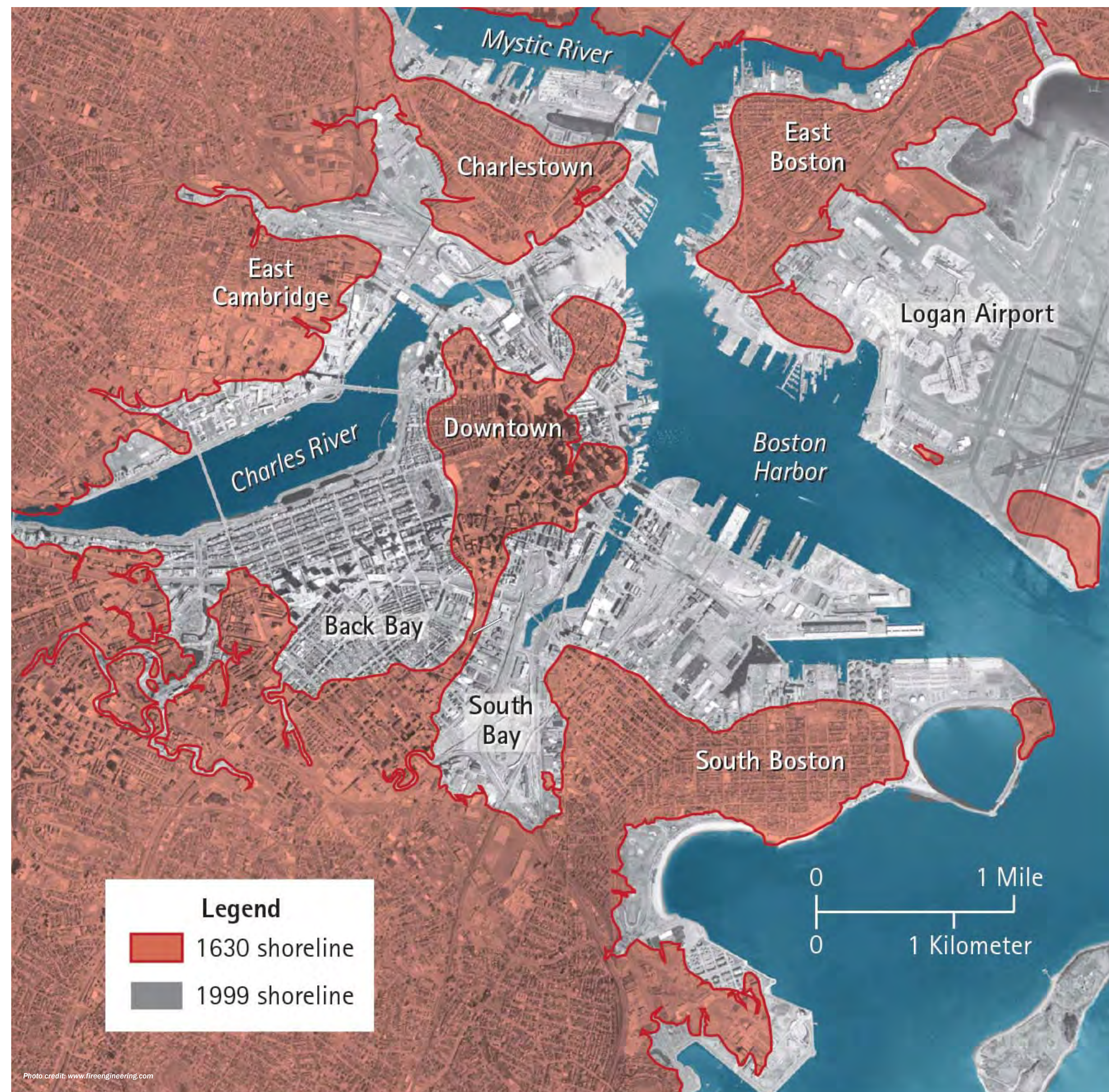
CLIMATE CHANGE

SEA LEVEL RISE - BACK TO THE FUTURE?



MANY AREAS OF BOSTON WERE HISTORICALLY UNDER WATER

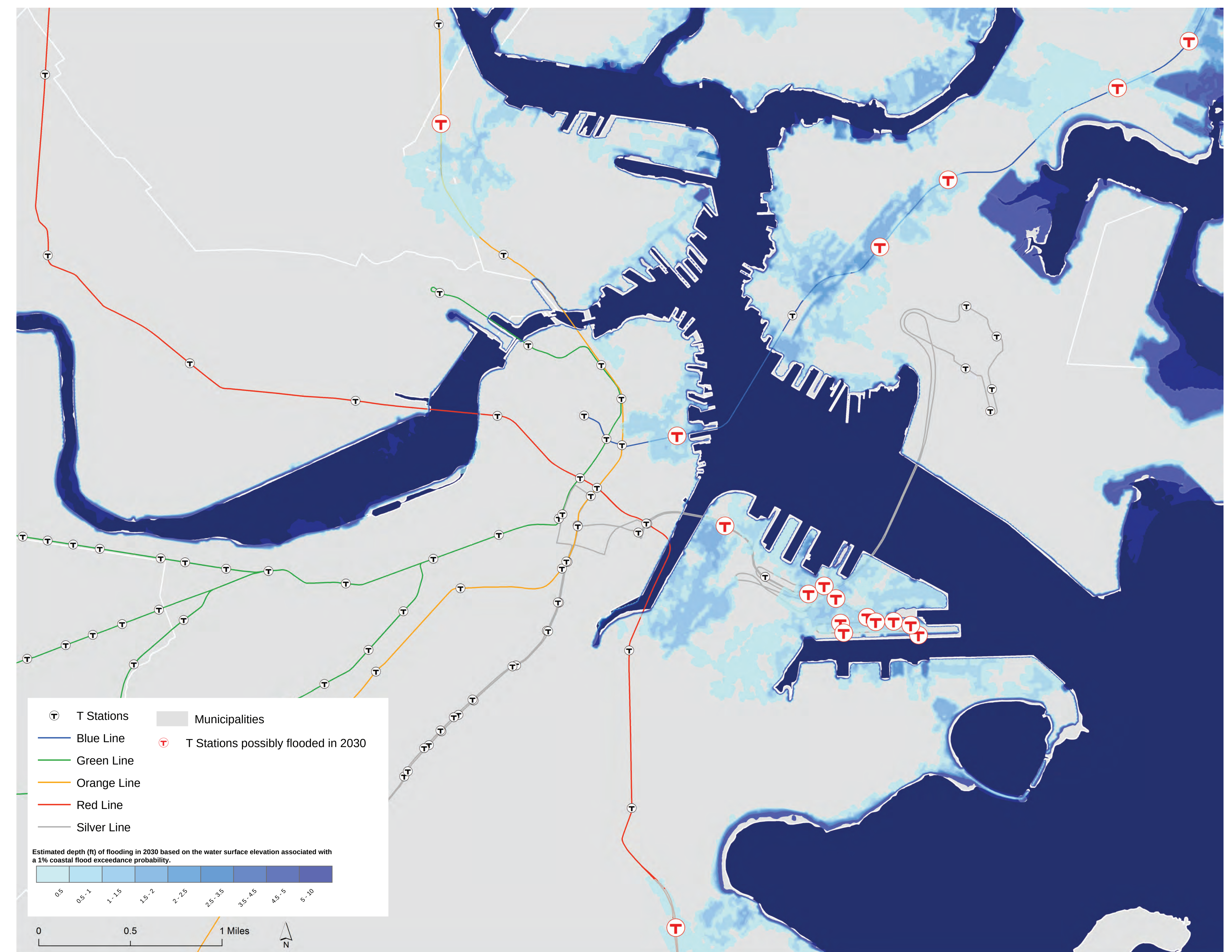
If sea level rise continues as anticipated, the region may have to focus its resources in areas within the historical shoreline.



Map of historical shoreline of Boston, 1630 and 1999

COASTAL FLOODING COULD IMPACT MBTA ASSETS AND SERVICE

Sea level rise contributes to an increased likelihood of coastal flooding during tides and storms. Existing MBTA assets are currently located in areas where flooding could occur, some of which (stations) are shown below.



Map of coastal flooding (1% exceedance probability) - 2030

The Climate Change and Extreme Weather Vulnerability Assessments and Adaptation Options of the Central Artery Project is a pilot project conducted by MassDOT and FHWA with partners from Woods Hole Group, UMass-Boston, and University of New Hampshire. The 1% coastal flood exceedance probability (otherwise known as the 100-year flood level) is the probability of flood water encroaching on the land surface at a particular location in any given year.