



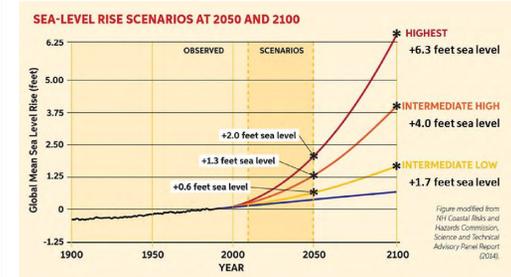
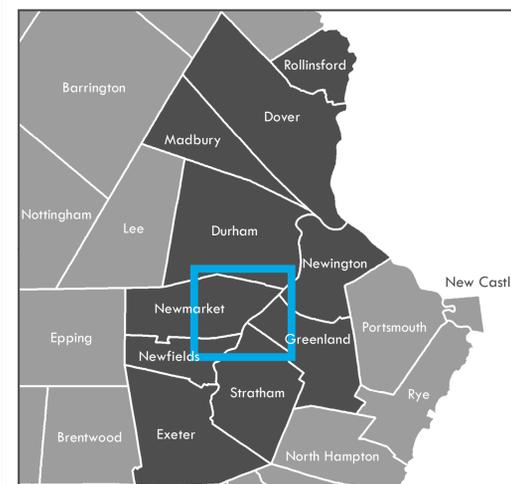
The Climate Risk in the Seacoast: Assessing Vulnerability of Municipal Assets and Resources to Climate Change (C-RiSe) project provides maps and assessments of flood impacts to infrastructure and natural resources in the coastal Great Bay region associated with projected increases in storm surge, sea level, and precipitation.

TOWN OF NEWMARKET

Map 1: Extent of Projected Tidal Flooding
Sea-Level Rise 1.7', 4.0', 6.3'

Legend

- Extent of Sea-Level Rise 1.7'
- Extent of Sea-Level Rise 4.0'
- Extent of Sea-Level Rise 6.3'
- Approximate Mean High High Water Level



Sea-Level Rise Scenarios
Please note that the sea-level rise scenarios used in this assessment were derived from the Wake, 2011 report (refer to table of values below from this report). These scenarios were selected prior to the release of the Science and Technical Advisory Panel Report to the N.H. Coastal Risks & Hazards Commission, in August, 2014 [1]. While slightly different than the scenarios cited in that report, they yield coverage estimates that are within the mapping margin of error.

[1] Wake, C.P., Kinchen, P., Huber, M., Knott, K., and Stompono, M. (2014) Sea-level Rise, Storm Surges, and Extreme Precipitation in Coastal New Hampshire: Analysis of Past and Projected Future Trends, prepared by the Science and Technical Advisory Panel (STAP) for the New Hampshire Coastal Risks and Hazards Commission.

| | 2050 | | 2100 | |
|---|-------------|-------------|-------------|-------------|
| | Lower | Higher | Lower | Higher |
| Current Elevation of MHHW ^{a,b} | 4.4 | 4.4 | 4.4 | 4.4 |
| 100-Year Flood Height | 6.8 | 6.8 | 6.8 | 6.8 |
| Subsidence | 0.0 | 0.0 | 0.0 | 0.0 |
| Eustatic SLR | 1.0 | 1.7 | 2.5 | 6.3 |
| Total Stillwater Elevation^{c,c} | 12.2 | 12.9 | 13.7 | 17.5 |

a - NAVD: North American Vertical Datum of 1988
b - MHHW: Mean Higher High Water at Fort Point, NH
c - Total Stillwater Elevation may not equal total of components due to rounding

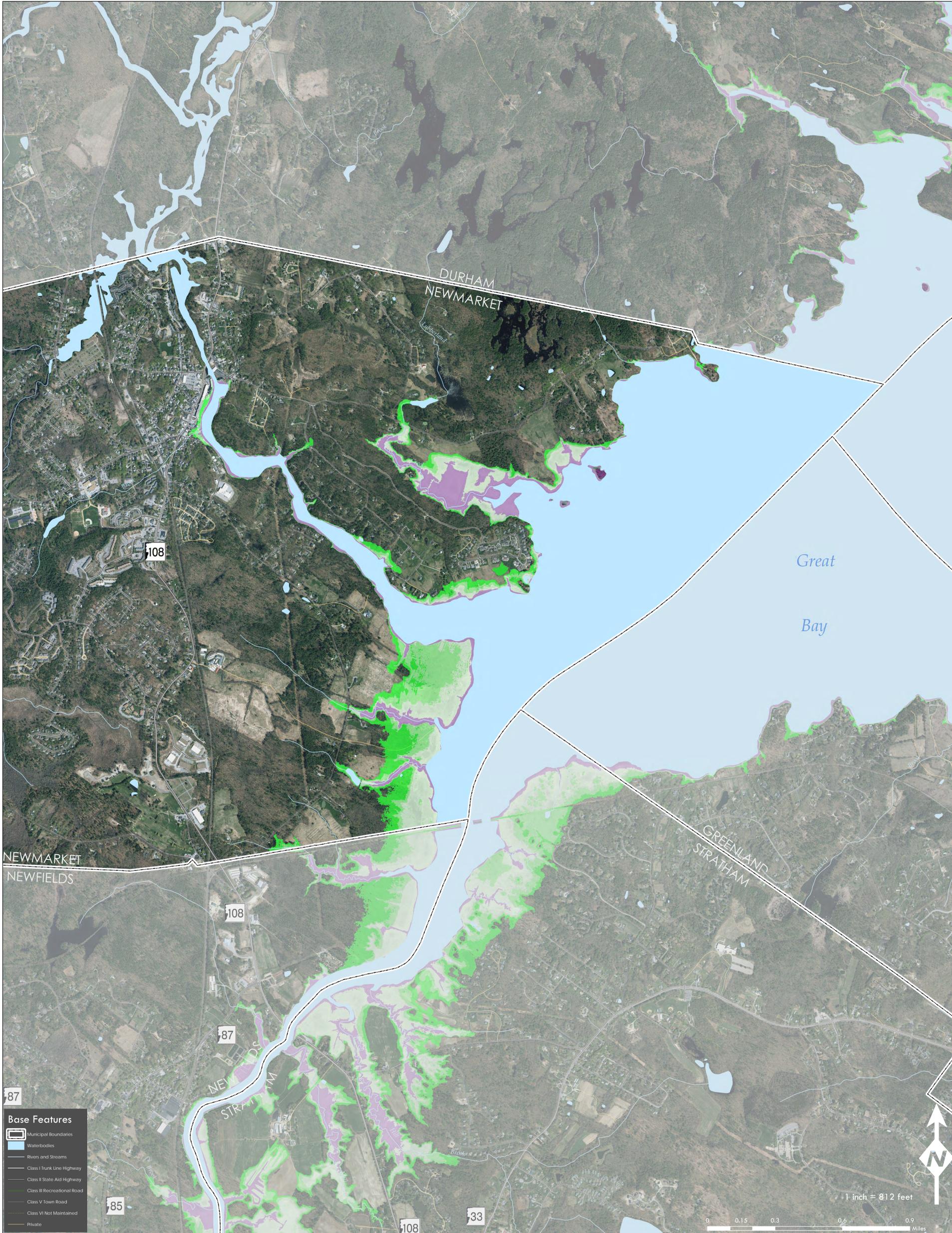
Table 13. Estimator (in feet) of future 100-year flood stillwater elevations at Fort Point under lower and higher emission scenarios (relative to NAVD83) based on the statistical analysis presented in this report.

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Data Sources:
Data sets were retrieved from the NH GRANIT database, December, 2015. Digital data in NH GRANIT represent the efforts of the contributing agencies to record information from the cited source materials. Earth Systems Research Center (ESRC), under contract to the Office of Energy & Planning (OEP), and in consultation with cooperating agencies, maintains a continuing program to identify and correct errors in these data. Neither OEP nor ESRC make any claim as to the validity or reliability or to any implied uses of these data.

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- #### Base Features
- Municipal Boundaries
 - Waterbodies
 - Rivers and Streams
 - Class I Trunk Line Highway
 - Class II State Aid Highway
 - Class III Recreational Road
 - Class V Town Road
 - Class VI Not Maintained
 - Private

1 inch = 812 feet

