



Project Narrative:

Task Order 8
Coastal Updates
Cumberland County, Maine

The objective of the Flood Map Project documented in this Statement of Work (SOW) is to develop Digital Flood Insurance Rate Maps (DFIRMs) and Flood Insurance Study (FIS) reports for the coastal areas of Cumberland and York Counties, Maine. This update affects Brunswick, Falmouth, Freeport, Long Island, and Yarmouth in Cumberland County. All processes and deliverables shall be completed in accordance with FEMA's *Guidelines and Specifications for Flood Hazard Mapping Partners (G&S)*, the FEMA document *Atlantic Ocean and Gulf of Mexico Coastal Guidelines Update Final Draft*, dated February 2007 and effective Procedure Memorandums (PMs), including those pertaining to coastal studies.

To support coastal analysis and mapping, STARR performed field reconnaissance activities and field surveys for the communities of Brunswick, Falmouth, Freeport, Long Island, and Yarmouth in Cumberland County from November 2011 to February 2012. Twenty-six (26) coastal transects were surveyed, using a Topcon Hiper GD GPS receiver in static and/or real time kinematic (RTK) mode. These field survey activities focused on collecting information which may not be represented in LiDAR data sets, such as: physical dimensions of coastal engineering structures (i.e. seawalls, revetments, etc.) and/or elevation data below 0.0 Feet NAVD 88.

Engineering analysis performed during the Map Modernization of Cumberland County was incorporated into this coastal update study. Stillwater elevations, survey data, and transect locations from the MapMod study were utilized. The MapMod Technical Support Data Notebook (TSDN) is enclosed. Updated input wave conditions were used for engineering analysis to define the coastal flood hazard for Cumberland County.

