Chapter-2 Natural and Technological Hazards and Risk Assessment



FIGURE 2.1: Long Beach, N.Y., Nov. 8, 2012—Aerial views of Hurricane Sandy damage to homes on Long Beach, New York. Following the hurricane, a nor'easter struck the area causing more power outages and additional flooding. FEMA is working with state and local officials to assist residents who were affected by Hurricane Sandy. Andrea Booher/FEMA.

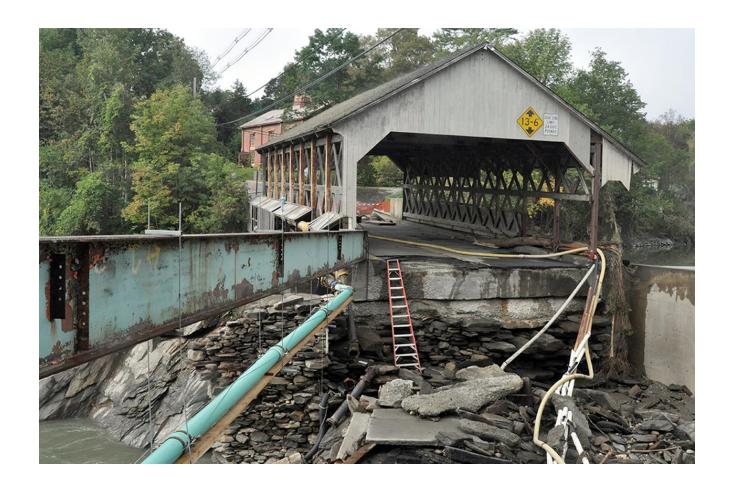


FIGURE 2.2: Quechee, Vt., Sep. 11, 2011—The Quechee bridge is a main thoroughfare and an integral part of the town. Residents cried as they watched their beloved bridge battered by flash flood waters caused by tropical storm Irene. Photo by Wendell A. Davis Jr/FEMA.

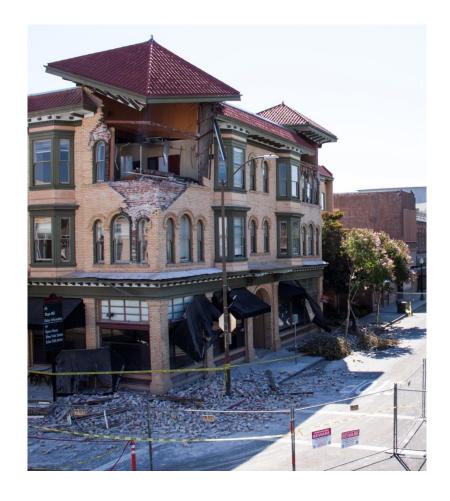


FIGURE 2.3: Napa, California, Aug. 24, 2014. This building was damaged by the magnitude 6.0 earthquake that struck Napa, resulting in a fenced-off street and closed businesses in the area. Photo by Ellis Maynard/FEMA.

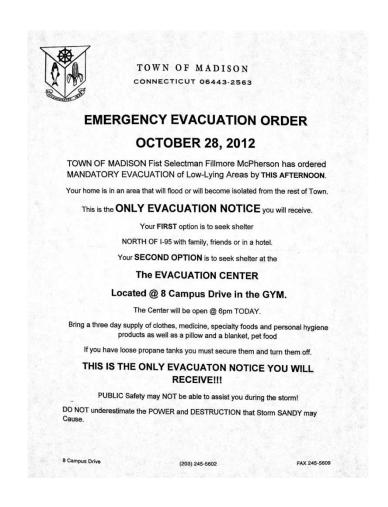


FIGURE 2.4: Image of evacuation flyer distributed in advance of Hurricane Sandy (2012) in coastal areas expected to be impacted by a storm surge. Author (2012).



FIGURE 2.5: Rowlett, TX, Dec. 28, 2015. Rowlett Fire Battalion Chief does a wellness check on residents in tornadostricken Rowlett neighborhood. Photo by Andrea Booher/FEMA.



FIGURE 2.6: Tulsa, Oklahoma, Nov. 23, 2001. Disaster Ally in the Eastland Mall. Safe rooms can be designed with many different materials. Shown are concrete block walls, formed concrete walls, and a special ceiling framing. Photo by Kent Baxter/FEMA News Photo.



FIGURE 2.7: Yuriage Port, Tohoku, Japan, Mar. 16, 2015. A resident of Yuriage Port, which was destroyed in the 2011 Great East Japan Earthquake, displays before and after photographs of the community to illustrate the scope of damage. Photo by Damon Coppola.



FIGURE 2.8: Lovelock, NV, Feb. 7, 2014. State park rangers burned weeds on the exposed lakebed of the Rye Patch Reservoir in Nevada, which was at 3.5% capacity amid a drought that has caused the worst water shortage the region has faced in more than a century. Photo by Max Whittaker, FEMA Website.



FIGURE 2.9: Staten Island, NY, Nov. 12, 2012, Aerial view of beach erosion on Coney Island, New York. Storm surge from Hurricane Sandy caused flooding and power outages throughout the island. Photo by Andrea Booher, FEMA.