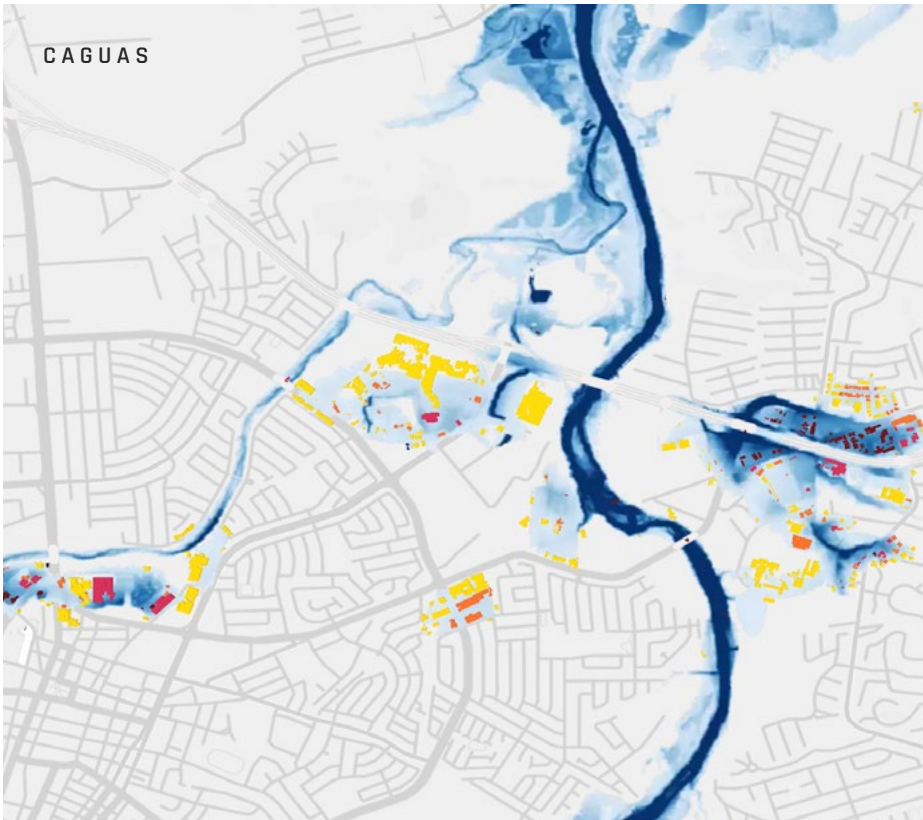


FLOODING FROM HURRICANE FIONA IN PUERTO RICO

DATA RELEASE 5: FLOOD BRIEFING SERIES POWERED BY MULTISOURCE DATA ANALYSIS LEVERAGING ICEYE SATELLITE IMAGERY



53.2 SQ MI (137.8 KM²)

total flood extent



5.87 FT (1.79 M)

average depth at building level



AFFECTED LOCATIONS

Arecibo, Florida, Imbéry, Barceloneta, Guayama, Juana Díaz, Ponce, San Juan, Coco, Salinas

Impact numbers based on initial release of ICEYE's Flood Insights

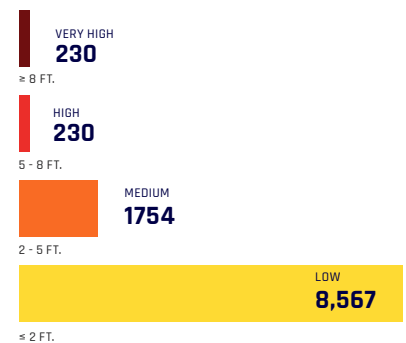
Initially a tropical depression before entering the Caribbean Sea, Fiona strengthened into a hurricane as it moved toward Puerto Rico on September 18th. Over the next 2 days, it brought torrential rains to the island with a widespread 10-20 inches observed and even a couple spots above 30 inches. This led to significant flash flooding and mudslide issues, accentuated by the hilly and mountainous terrain of the island. At least 2 people have died and some 1,000 had to be rescued, while the flooding also caused a complete power outage for the 3.3 million people living on the island. The storm also brought significant impacts to the U.S. Virgin Islands, Dominican Republic, and Turks & Caicos -- and eventually even Atlantic Canada, devastating parts of Nova Scotia and Prince Edward Island.¹

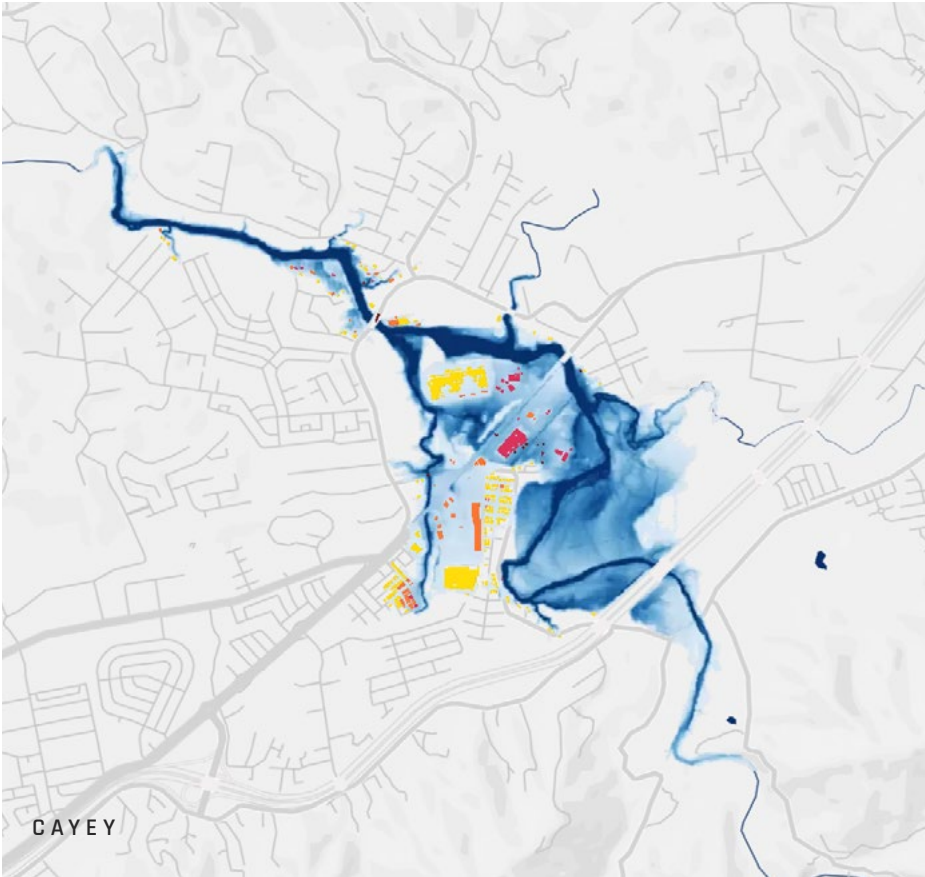
¹ Source: <https://www.bbc.co.uk/news/world-us-canada-62947900>



TOTAL NUMBER OF BUILDINGS AFFECTED BY FLOOD WATER DEPTH CATEGORY

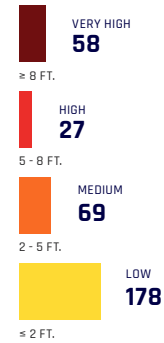
EASTERN PUERTO RICO: 10,781





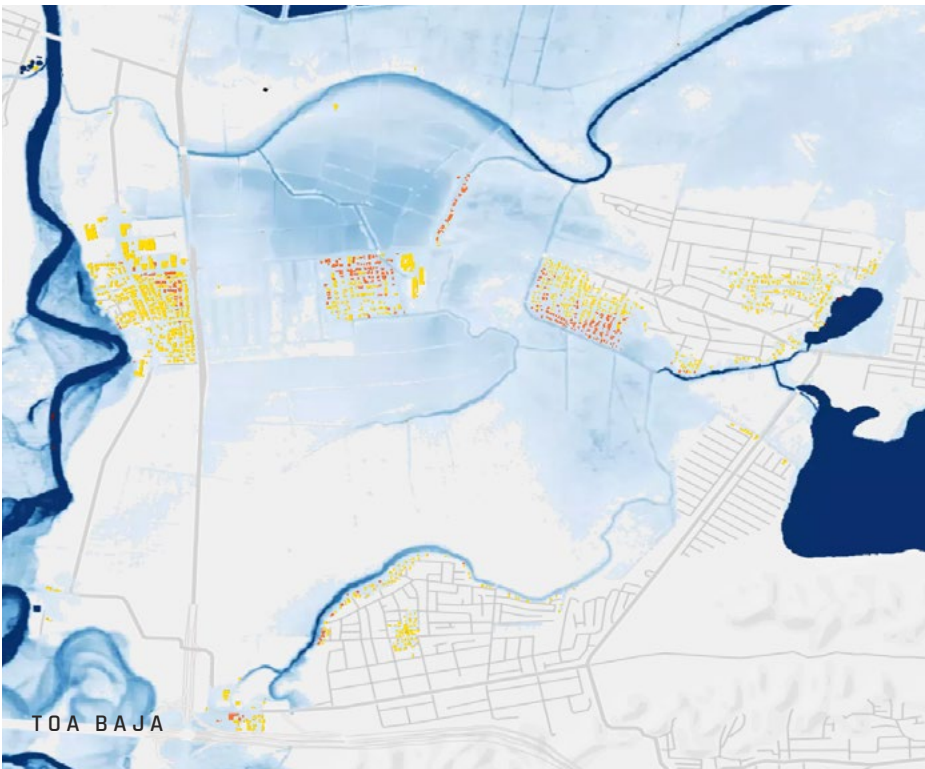
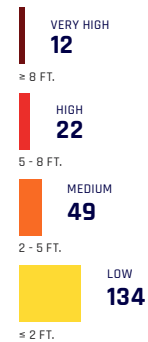
TOTAL NUMBER OF BUILDINGS AFFECTED BY FLOOD WATER DEPTH CATEGORY

CAGUAS: 332



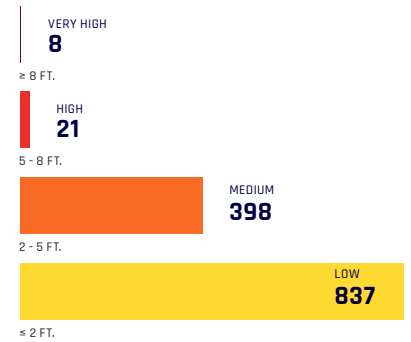
TOTAL NUMBER OF BUILDINGS AFFECTED BY FLOOD WATER DEPTH CATEGORY

CAYEY: 217



TOTAL NUMBER OF BUILDINGS AFFECTED BY FLOOD WATER DEPTH CATEGORY

TOA BAJA: 1,264



Disclaimer: The current analysis is focused on data specific to the regions most affected by the floods. Some areas which have been impacted by the flooding may not be represented in the data.

TALK TO SALES & GAIN ACCESS TO OUR DETAILED ANALYSIS

www.ICEYE.com/flood

Building footprint credit for FEMA's US Structures dataset