FLOODING FROM HURRICANE IAN IN FLORIDA, US

ICEYE
FLOOD SOLUTIONS

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

DATA RELEASE 5

START PEAK
FIRST ACQUISITION

LAST
ACQUISITION

START MONITORING — FIRST ANALYSIS — END PEAK — FINAL ANALYSIS

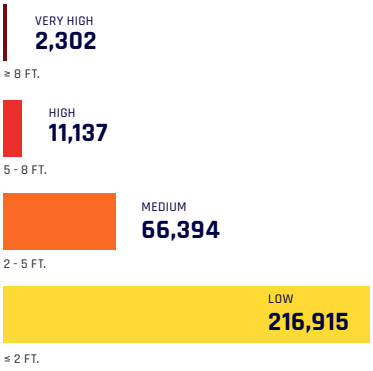
Sept 23rd — Sept 28th — Sept 29th — Oct 3rd — Oct 5th — Oct 5th

1,937 SQ MI (6,499 KM²)
total flood extent across Florida

1.32 FT (0.40 M)
average depth at building level

TOTAL NUMBER OF BUILDINGS AFFECTED BY FLOOD WATER DEPTH CATEGORY

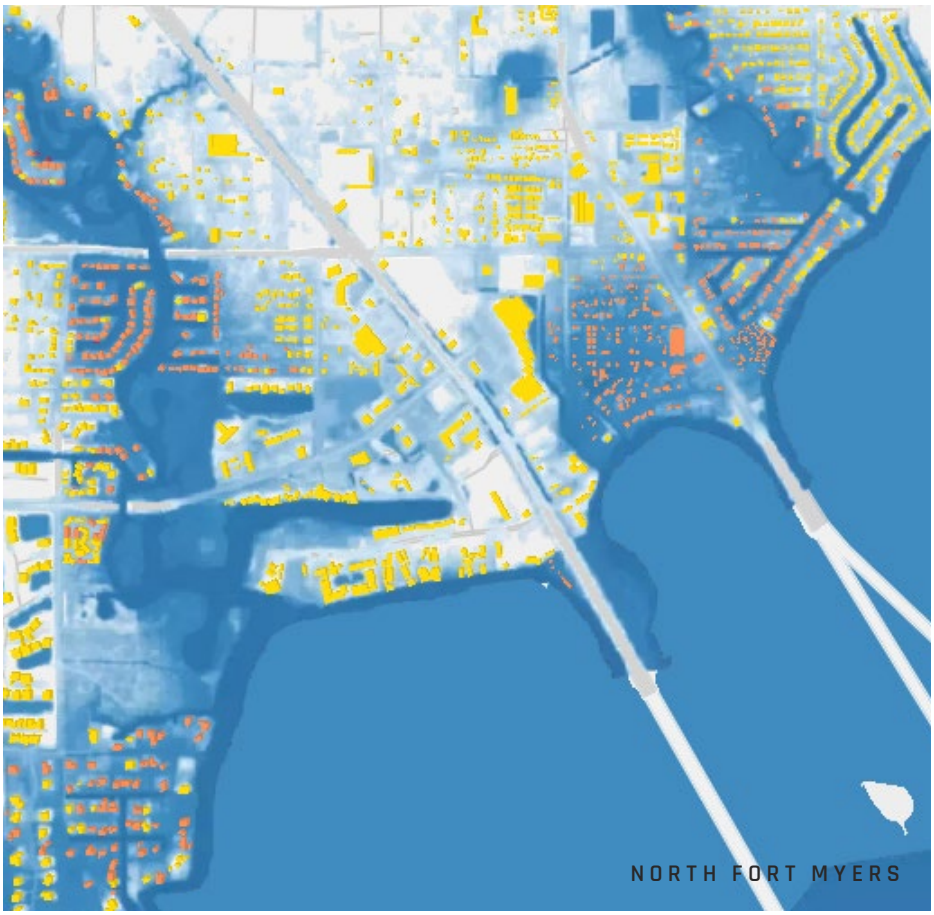
FLORIDA:
296,748



Hurricane Ian moved across Cuba on September 27th as a strengthening hurricane, and became a powerful Category 4 hurricane on September 28th. As the storm moved toward the US's third most-populous state, Florida, millions were urged to evacuate[1]. In Key West, nearly 2.5 feet of storm surge flooding was observed as Ian passed by to the west. Catastrophic storm surge impacts were observed in Southwest Florida as Ian made landfall. As part of that, at least 6 feet of storm surge flooding has been observed from Naples to Fort Myers.

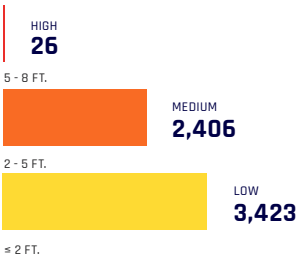
As Ian moved inland, it caused significant freshwater flooding with 10-20 inches of rainfall across central Florida. The flooding on some of the rivers in central and northeast Florida continued for several days, while the storm made a second landfall in South and North Carolina.

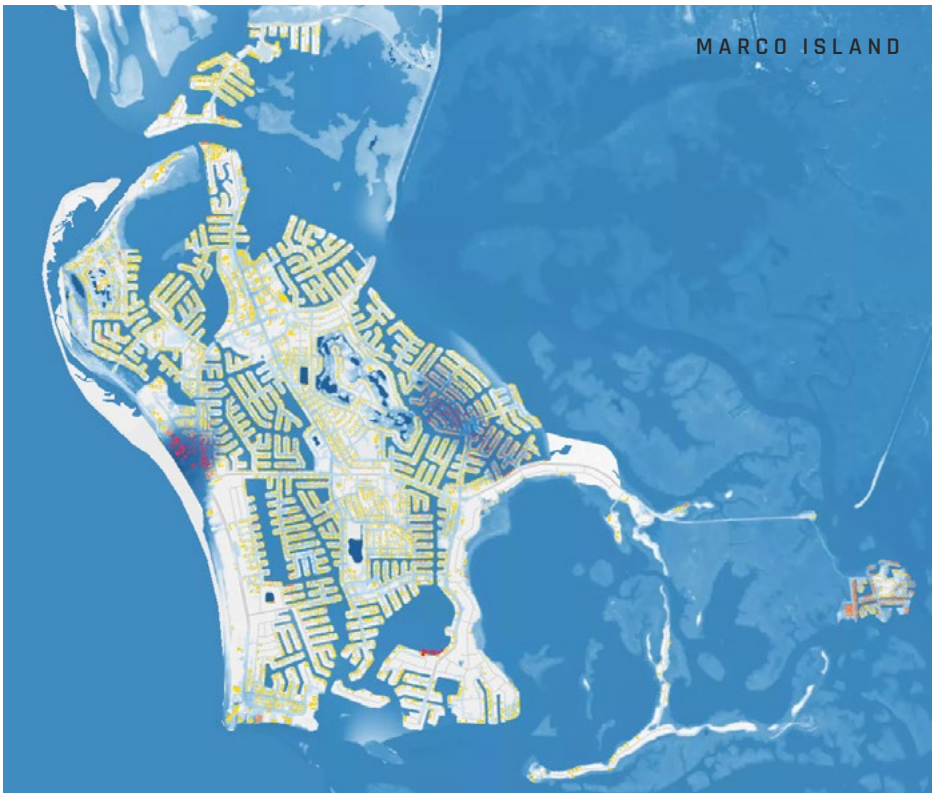
[1] *Source:: https://www.washingtonpost.com/nation/2022/09/28/hurricane-ian-florida-evacuations/*



TOTAL NUMBER OF BUILDINGS AFFECTED BY FLOOD WATER DEPTH CATEGORY

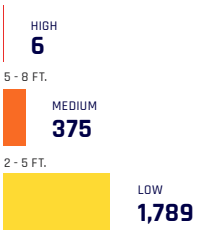
NAPLES: 5,855





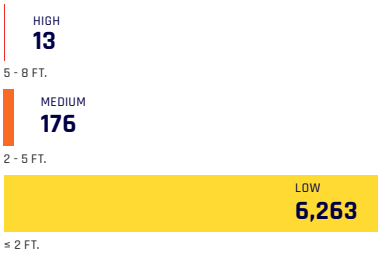
TOTAL NUMBER OF BUILDINGS AFFECTED BY FLOOD WATER DEPTH CATEGORY

NORTH FORT MYERS: 2,170



TOTAL NUMBER OF BUILDINGS AFFECTED BY FLOOD WATER DEPTH CATEGORY

MARCO ISLAND: 6,452



Building footprint credit for FEMA USA Structures database

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Disclaimer: The impact numbers are subject to change as ICEYE continues to analyze the flood and extend the analysis area. The current data is based on ICEYE's analysis with information collected until 10.00 UTC on October 5th 2022. Some areas which have been impacted by the flooding may not be represented in this initial data.

ICEYE